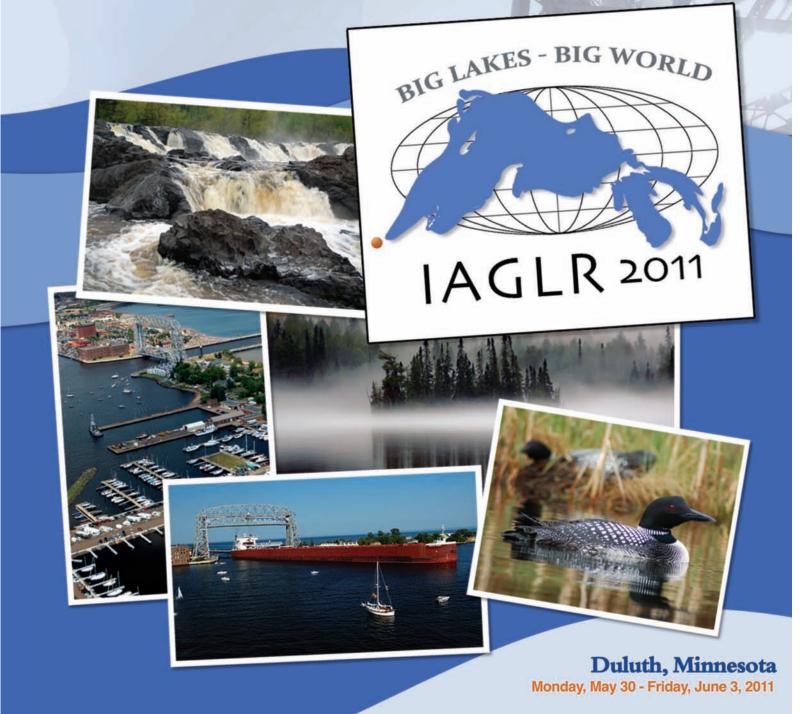


54th Annual Conference on Great Lakes Research

International Association for Great Lakes Research



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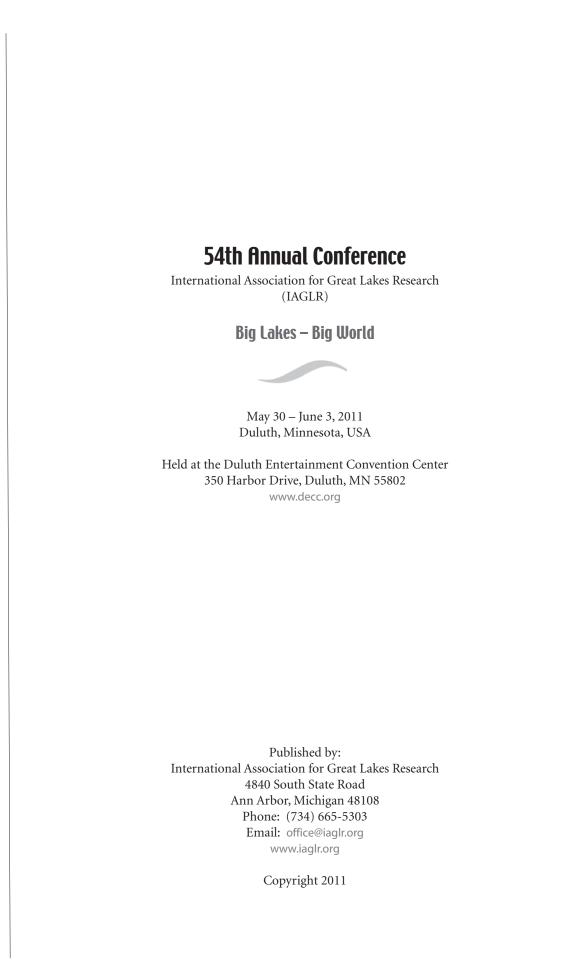
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Conference Hosts

Program



Conference Theme

Big Lakes – Big World

Lake Superior is called *Gichigami* in the Ojibwe language, meaning "big water." The 2011 International Association for Great Lakes Research (IAGLR) annual conference is taking place next to *Gichigami*, the largest freshwater lake in the world (by surface area), so the theme of "Big Lakes – Big World" is apropos. Many topics that are important to IAGLR members and the world (e.g., global climate change, invasive species, ballast water issues, water diversions, etc.) fit under this theme, which also emphasizes the international nature of IAGLR and the scope of aquatic research being conducted by IAGLR members.





Logo Design

Kate Whittaker, an artist from Duluth, Minnesota, designed the conference logo with an enlarged Lake Superior projected onto a globe to indicate the location of the 2011 IAGLR Conference on the shores of this lake in Duluth, Minnesota, while also emphasizing the international nature and scope of the professional association. On her website (katewhittaker.com), Whittaker states, "I credit my training in the geological sciences for the appreciation I have for everything from earth's dynamic processes, to nature's exquisite forms, to an in-depth understanding of the origins of my paints. The beauty of science has greatly expanded my relationship to art and has liberated and grounded me as a process painter."

Front Cover Design and Photographs

Chris J. Benson, outdoor photographer, has explored hundreds of different lakes, rivers, and streams throughout Minnesota. Photography has given Benson the opportunity to capture and share these explorations. He has created an online gallery, chrisjbenson.com, to allow a glimpse into his love of the outdoors and the beautiful views Minnesota offers. Benson says the more time he spends out on the waters, the more he appreciates how fortunate we are to have them. Benson also works for Minnesota Sea Grant, providing Web development, graphic design, and photography support to the program. He says he is grateful that he can apply his skills to a program that encompasses his passion for Minnesota and its waters.

Inside Program Design

The inside of the program book was designed by Karen Hoeft of Hoeft Design. Hoeft has lived and worked on the North Shore for the past 20 years. She has been a graphic designer for over 30 years. Her work has revolved closely around Lake Superior, its residents and visitors. A few of her logo designs are the Gitchi-Gami State Trail logo, the Great Lakes Coastal Program logo, and the Minnesota State Parks logo. You can view her portfolio at www.hoeftdesign.net. Karen has worked on specific projects for the University of Minnesota Sea Grant Program over the last 15 years, including the flavorful Lamprey Taste Test. When not designing, Hoeft's hobby is searching out ancient rock art forms, specifically pictographs and petroglyphs.

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Conference Exhibitors

Welcome Conference Exhibitors!

ASL Environmental Sciences Inc. Victoria, BC V8M 1Z5 www.aslenv.com

At Sara's Table Duluth, MN 55812 www.astccc.net/

EcoAnalysts, Inc. Moscow, ID 83843 www.ecoanalysts.com

Elsevier*** Science and Technology Journals New York, NY 10010 www.sciencedirect.com/jglr

Environment Canada Great Lakes Areas of Concern Toronto, ON M3H 5T4 www.ec.gc.ca/raps-pas

Great Lakes Indian Fish and Wildlife Commission^ Odanah, WI 54861-0009 www.glifwc.org

Great Lakes Observing System Ann Arbor, MI 48104 www.glos.us

Hach Hydromet⁺ Loveland, CO 80538 www.hachhydromet.com

International Joint Commission*^ Great Lakes Regional Office Windsor, ON N9A 6T3 www.ijc.org

Lake Superior National Estuarine Research Reserve Superior, WI 54880 www.lsnerr.uwex.edu

Lotek Wireless Inc. Newmarket, Ontario L3Y 7B5 www.lotek.com Minnesota Department of Natural Resources St. Paul, MN 55155-4040 www.dnr.state.mn.us

New York Sea Grant Stony Brook, NY 11794 www.seagrant.sunysb.edu

PP Systems Bbe Moldaenke Distributor Amesbury, MA 01913 www.ppsystems.com/bbe_moldaen ke.htm

Prairie Ocean Technologies, Inc. West Hawk Lake, MB R0E 2H0 www.prairieoceantech.com/

RBR Ltd. Ottawa, ON K1S 3Y7 www.rbr-global.com

Satlantic Inc. Halifax, Nova Scotia B3K 5X8 www.satlantic.com

Sonotronics, Inc. Tucson, AZ 85713 www.sonotronics.com

Stop Aquatic Hitchhikers!™ Univ. of Minnesota Sea Grant Program (host) Duluth, MN 55812 www.seagrant.umn.edu/ais

Turner Designs, Inc. Sunnyvale, CA 94085 www.turnerdesigns.com

U.S. Geological Survey Great Lakes Science Center^ Ann Arbor, MI 48105 www.usgs.gov U.S. Dept. of Commerce, NOAA Great Lakes Environmental Research Laboratory*^ Ann Arbor, MI 48108 www.glerl.noaa.gov

University of Minnesota Sea Grant Program^ Duluth, MN 55812-1198 www.seagrant.umn.edu

University of Minnesota-Duluth Swenson College of Science and Engineering^ Duluth, MN 55812 www.d.umn.edu/scse/

University of Minnesota-Duluth Natural Resources Research Institute Duluth, MN 55812 www.nrri.umn.edu

University of Wisconsin Sea Grant Institute Madison, WI 53706 www.seagrant.wisc.edu/home/

VEMCO Halifax, Nova Scotia B3K 4V8 www.vemco.com

Visit Duluth Duluth, MN 55802 http://visitduluth.com

YSI Yellow Springs, OH 45387 www.ysi.com

A special thank you is extended to the Exhibitors as indicated: *annual SUSTAINING MEMBER ^proud conference SPONSOR *annual AWARD or SCHOLARSHIP Sponsor **Journal of Great Lakes Research Publisher

Exhibits will be open daily from 9 a.m. to 5 p.m. with refreshments served in the Edmund Fitzgerald Hall during each break and the poster session. Please make the exhibitors feel welcome by visiting their displays! In addition, select exhibitors will be demonstrating appropriate instrumentation on short cruises of the University of Minnesota Duluth's Large Lakes Observatory research vessel, the *R/V Blue Heron*. These demonstrations will take place on Thursday afternoon. Visit the exhibitors to learn more.

Our deepest appreciation is extended to our annual IAGLR sustaining members

Great Lakes Fishery Commission* 2100 Commonwealth Boulevard, Suite 100 Ann Arbor, Michigan 48105-1563

Great Lakes Protection Fund 1560 Sherman Avenue, Suite 880 Evanston, Illinois 60201-4808

International Joint Commission Great Lakes Regional Office 100 Ouellette Avenue

Windsor, Ontario N9A 6T3

U.S. Dept. of Commerce

National Oceanic and Atmospheric Administration Great Lakes Environmental Research Laboratory 4840 South State Road Ann Arbor, Michigan 48108

U.S. Environmental Protection Agency Great Lakes National Program Office 77 West Jackson Street Chicago, Illinois 60604

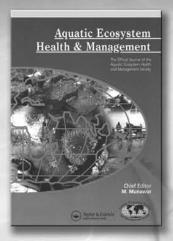
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The International Association for Great Lakes Research is a member-run organization. If you are interested in supporting the scientific community in its work in the exploration, discussion and resolution of Great Lakes issues, please consider joining IAGLR! Individual or sustaining memberships are available. Further information may be found on our website www.iaglr.org or pick up our brochure in the registration area.

IAGLR member benefits include:

Quarterly Journal of Great Lakes Research subscription Journal of Great Lakes Research special issues Access to Journal of Great Lakes Research archives from 1975-present Annual Conference on Great Lakes Research registration discount IAGLR Notes, a biweekly e-mail news service Access to our private IAGLR Membership Directory Access to and/or volunteer for IAGLR's Expert Directory Recognition through prestigious peer reviewed IAGLR awards Free Contents Direct email alerting service Additional discounts available from Elsevier Eligibility for election to serve on the IAGLR Board of Directors Opportunities to work on various committees Networking resources The Job Board to advertise job openings or seek employment Keeping abreast or posting news of interest on our website Reduced fees, but full benefits, for students, retirees, and young professionals!

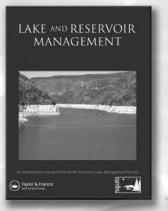
FREE ONLINE ACCESS to Aquatic Science Journals for IAGLR 2011 Conference Attendees



Aquatic Ecosystem Health & Management

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> Editor-in-Chief: M. Munawar Fisheries & Oceans Canada Canada Centre for Inland Waters Volume 14, 2011 • 4 issues per year www.tandf.co.uk/journals/UAEM



Lake and Reservoir Management An International Journal of the North American Lake Management Society

> Editor-in-Chief: Ken Wagner Water Resource Services LLC Volume 27, 2011 • 4 issues per year www.tandf.co.uk/journals/ULRM



Reviews in Fisheries Science Editor-in-Chief: Sandra E. Shumway University of Connecticut Volume 19, 2011 • 4 issues per year www.tandf.co.uk/journals/BRFS



Coastal Management The Official Journal of The Coastal Society Editor-in-Chief: Patrick Christie University of Washington Volume 39, 2011 • 6 issues per year www.tandf.co.uk/journals/UCMG

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Conference Overview

Organizing Committee

Conference Co-Chairs: Dr. Randall Hicks, Director, Center for Freshwater Research and Policy, University of Minnesota Duluth Dr. Stephanie Guildford, Associate Professor, Large Lakes Observatory, University of Minnesota Duluth **Conference Coordinator:** Mary Ginnebaugh **Program Co-Chairs:** Dr. Anett Trebitz, Scientist, Mid-Continent Ecology Division, U.S. Environmental Protection Agency Dr. Jay Austin, Associate Professor, Large Lakes Observatory, University of Minnesota Duluth Local Arrangements Co-Chairs: Dr. Valerie Brady, Research Coordinator, University of Minnesota Sea Grant College Program Dr. Patrick Schoff, Research Associate, Natural Resources Research Institute, University of Minnesota Duluth **Business Manager, IAGLR:** Wendy Foster **Conference Chair, IAGLR Board:** Robert J. Letcher, Environment Canada **Student Judging Coordinator:** Theresa Qualls, University of Wisconsin Sea Grant Program **Organizing Committee Members:** Pat Collins, Jeff Gunderson, Julie Johnson, Sue Ellen Moore, Don Schreiner, Laura Solem, Carol Wolosz, Prosper Zigah Media Relations: June Kallestad, Natural Resources Research Institute, University of Minnesota Duluth Sharon Moen, University of Minnesota Sea Grant College Program Our gratitude to the following individuals/groups for their contributions: Chris Benson, Deborah Bowen, Connie Post, Jesse Schomberg, Judy Zomerfelt, graduate student volunteers **IAGLR Officers and Board Members:** Robert Heath, President Robert J. Letcher, Vice President Linda Campbell, Past President Thomas M. Holsen, Treasurer Stephanie Guildford, Secretary Peter J. Dillon Stephen R. Hensler Joseph Makarewicz Linda Mortsch Amanda Poste, Student Member Lake Superior Binational Program Prosper Zigah, Student Member Anniversary Learn about ecosystem research, monitoring and restoration in Lake Superior from 1991-2011 and into the future. Attend the Special Session on Thursday or Friday in the French River Room Learn more online at: www.epa.gov/glnpo or www.ec.gc.ca/greatlakes 7

Overview of conference activities

All activities take place at the DECC unless otherwise noted.

Monday, May 30

8:00 a.m. – 5:00 p.m.	Workshop: Introduction to R (pre-registration required), Horizon 204
9:00 a.m. – 4:00 p.m.	IAGLR Board of Directors meeting, Board Room
1:00 p.m. – 5:00 p.m.	VEMCO Acoustic Telemetry Workshop (pre-registration required), Horizon 202
1:00 p.m. – 3:00 p.m.	Student volunteer training, Split Rock Room
3:00 p.m. – 6:00 p.m.	Exhibitor and poster set-up, Edmund Fitzgerald Hall
3:00 p.m. – 8:00 p.m.	Registration open, Registration Area
4:00 p.m. – 8:00 p.m.	Speaker ready room and presentation loading, St. Louis River Room
5:30 p.m. – 7:00 p.m.	Defy Hockey Cup Challenge, Duluth Heritage Sports Center,
	120 South 30th Avenue West, Duluth, Minnesota
	Meet at registration area at 4:30 p.m. to carpool to venue.
6:30 p.m. – 9:30 p.m.	Welcome mixer, Harborside Ballroom

Tuesday, May 31

7:30 a.m. – 6:00 p.m.	Speaker ready room and presentation loading, St. Louis River Room
7:30 a.m. – 5:00 p.m.	Registration open, Registration Area
7:30 a.m. – 9:00 a.m.	Coffee and tea available, Edmund Fitzgerald Hall and Harborside Area
8:00 a.m. – 10:20 a.m.	Concurrent sessions, Cityside and Harborside areas
9:00 a.m. – 5:00 p.m.	Exhibitor and poster set-up, Edmund Fitzgerald Hall
9:00 a.m. – 5:00 p.m.	Exhibitor trade show open, Edmund Fitzgerald Hall
9:00 a.m. – 4:00 p.m.	Press room available, Board Room
10:20 a.m. – 10:40 a.m.	Morning break, Edmund Fitzgerald Hall and Harborside Area
10:40 a.m. – 11:10 a.m.	Opening ceremonies, Lake Superior Ballroom
11:10 a.m. – 12:10 p.m.	Plenary by Dr. Marianne Moore, Lake Superior Ballroom
12:20 p.m. – 1:30 p.m.	Lunch on your own (pre-ordered box lunches, Harborside Ballroom)
12:20 p.m. – 1:30 p.m.	COSEE Great Lakes Teacher-Researcher Lunch
	(pre-registration required), Gooseberry Falls 3
1:40 p.m. – 5:00 p.m.	Concurrent sessions, Cityside and Harborside areas
3:20 p.m. – 3:40 p.m.	Afternoon break, Edmund Fitzgerald Hall and Harborside area
5:00 p.m. – 7:00 p.m.	Poster reception and judging and exhibitor reception, Edmund Fitzgerald Hall
7:30 p.m. – 9:30 p.m.	Student-only pizza cruise and mixer, Vista Star cruise boat (board immediately
	behind the DECC on the Duluth Harbor)

Wednesday, June 1

7:30 a.m. – 6:00 p.m.	Speaker ready room and presentation loading, St. Louis River Room
7:30 a.m. – 5:00 p.m.	Registration open, Registration Area
7:30 a.m. – 9:00 a.m.	Coffee and tea available, Edmund Fitzgerald Hall and Harborside area
8:00 a.m. – 11:00 a.m.	Concurrent sessions, Cityside and Harborside areas
9:00 a.m. – 4:00 p.m.	Press room available, Board Room
9:00 a.m. – 5:00 p.m.	Exhibitor trade show open, Edmund Fitzgerald Hall
9:20 a.m. – 9:40 a.m.	Morning break, Edmund Fitzgerald Hall and Harborside area
11:10 a.m. – 12:10 p.m.	Plenary by Dr. Sally MacIntyre, Lake Superior Ballroom
12:20 p.m. – 1:30 p.m.	IAGLR Business Lunch, Lake Superior Ballroom
1:40 p.m. – 5:20 p.m.	Concurrent sessions, Cityside and Harborside areas
3:20 p.m. – 3:40 p.m.	Afternoon break, Edmund Fitzgerald Hall and Harborside area
6:00 p.m. – 6:30 p.m.	Pre-banquet mixer, Lake Superior Ballroom
6:30 p.m. – 9:00 p.m.	Banquet, Lake Superior Ballroom

Overview of conference activities continued

Thursday, June 2	
7:45 a.m. – 5:00 p.m.	Speaker presentation loading, Registration Area (note location change)
7:45 a.m. – 5:00 p.m.	Registration open, Registration Area
7:45 a.m. – 9:00 a.m.	Coffee and tea available, Edmund Fitzgerald Hall and Harborside area
8:00 a.m. – 11:00 a.m.	Concurrent sessions, Cityside and Harborside areas
9:00 a.m. – 4:00 p.m.	Press room available, Board Room
9:00 a.m. – 5:00 p.m.	Exhibitor trade show open, Edmund Fitzgerald Hall
9:20 a.m. – 9:40 a.m.	Morning break, Edmund Fitzgerald Hall and Harborside area
11:10 a.m. – 12:10 p.m.	Plenary by Mr. John Goss, Lake Superior Ballroom
12:20 p.m. – 1:30 p.m.	Lunch on your own (pre-ordered box lunches, Harborside Ballroom)
1:40 p.m. – 5:20 p.m.	Concurrent sessions, Cityside and Harborside areas
2:00 p.m. – 4:00 p.m.	Shipboard equipment demonstrations, R/V Blue Heron
	(pre-registration with exhibitors is required)
3:20 p.m. – 3:40 p.m.	Afternoon break, Edmund Fitzgerald Hall and Harborside area
5:30 p.m.	Dinner on your own. Enjoy the many fine restaurants in Canal Park
	and on Superior Street.
6:00 p.m. – 8:00 p.m.	Research vessel tours, R/V Blue Heron (UMD), R/V Lake Explorer II (US EPA),
	R/V L.L. Smith, Jr. (UWS); (board immediately behind the DECC on the
	Duluth harbor)
Friday, June 3	
7:45 a.m. – 10:30 a.m.	Speaker presentation loading, Registration Area (note location change)
7:45 a.m. – 12:00 p.m.	Registration open, Registration Area
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7:45 a.m. – 9:00 a.m. 8:00 a.m. – 12:00 p.m. 9:00 a.m. - 12:00 p.m. 10:00 a.m. – 10:20 a.m. 12:00 p.m.

Coffee and tea available, Edmund Fitzgerald Hall and Harborside area Concurrent sessions, Cityside and Harborside areas Exhibitor trade show open, Edmund Fitzgerald Hall Morning break, Edmund Fitzgerald Hall and Harborside Area IAGLR Conference ends

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Special Events Information

Welcome Reception

Music provided by Stone Circle: Georgiane Hunter, Celtic harp, and Katherine Elmer, hammer dulcimer, of Knife River, Minnesota (www.huntermusic.com).

Opening Ceremonies

Tuesday, May, 10:40 a.m., Lake Superior Ballroom

University of Minnesota Duluth Chancellor Lendley Black, Duluth Mayor Don Ness, and U.S. EPA Mid-Continent Ecology Division Director Dr. Carl Richards will welcome attendees to Duluth and to the 54th Annual Conference on Great Lakes Research. Their remarks will be immediately followed by the first plenary, presented by Dr. Marianne Moore, Wellesley College: **Big Lakes and Environmental Change: A View from Lake Baikal.**

IAGLR Business Lunch

Wednesday, June 1, 12:20 p.m., Lake Superior Ballroom. Introduction of new IAGLR board members and updates on IAGLR activities. All attendees welcome.

IAGLR Banquet and Awards Ceremony

Wednesday, June 1, 6:30 p.m., Lake Superior Ballroom. Mixer and cash bar beginning at 6:00 p.m. Invited guest speaker, Senator Amy Klobuchar (Minnesota), along with the presentation of IAGLR awards and scholarships.

IAGLR Awards

IAGLR Lifetime Achievement Award for important and continued contributions to Great Lakes research Jack R. Vallentyne Award for outreach and education Anderson-Everett Award for outstanding contributions to the Association Chandler-Misener Award for outstanding article in the *Journal of Great Lakes Research* Editor's Award Elsevier Best Reviewer Award for the *Journal of Great Lakes Research* Elsevier Young Scientist Award Elsevier Young Student Award IAGLR-HYDROLAB Best Student Paper IAGLR-HYDROLAB Best Student Poster IAGLR Appreciation Awards

IAGLR Scholarships*

IAGLR-OMNR Student Travel Award IAGLR Scholarship Norman S. Baldwin Fishery Science Scholarship Paul W. Rodgers Scholarship

*IAGLR is a non-profit 501(c)(3) organization. Donations are deductible from U.S. income tax and against U.S. earnings in Canada.



Tour Lake Superior Research Vessels

Thursday, June 2 from 6-8 p.m. local research vessels will be moored immediately behind the DECC and available for tours for registered IAGLR attendees and their guests.

The University of Minnesota Duluth's Large Lakes Observatory operates the largest university-owned research vessel in the Great Lakes, the *R/V Blue Heron*. Built in 1985 for fishing on the Grand Banks, the *Blue Heron* was purchased by the University of Minnesota in 1997, sailed from Portland, Maine, up the St. Lawrence Seaway to Duluth, and converted into a limnological research vessel during the winter of 1997-98. She is outfitted with state-of-the-art research equipment. The *Blue Heron* has berthing for 11 crew and scientists, and can operate 24 hours per day for up to 21 days between port calls. The *Blue Heron* is part of the University National Oceano-graphic Laboratory System (UNOLS), and is available for charter by research scientists on any of North America's Great Lakes.



The R/V Lake Explorer II, operated by the U.S. EPA Mid-Continent Ecology Division, Duluth, Minnesota, has just completed its outfitting for Great Lakes research. The vessel will specialize in developing a comprehensive environmental assessment of coastal conditions in the Great Lakes. This research is conducted using cutting-edge technologies for sampling aquatic life, water quality and sediments, including state-of-the-art *in situ* environmental sensing systems. There are 11 bunks (four double staterooms and one triple stateroom) aboard the *R/V Lake Explorer II*. The vessel accommodates four crew (boat captain, first mate, chief and first engineers) and up to seven scientists.

The *R/V L.L. Smith*, *Jr.*, is a 58-foot research tug equipped with a full array of navigational electronics. Operated by the University of Wisconsin-Superior's Lake Superior Research Institute (LSRI), the *Smith* is used primarily for day excursions focused on aquatic science education and sometimes research. The vessel's crew has connected the communities of western Lake Superior with the lake and its science for 30 years. Educators continue to collect water, plankton, and sediment samples with multiple audiences in cooperation with state and federal agencies. About 30 passengers can experience hands-on science aboard the *L.L. Smith* at one time.





Plenary Speaker – Tuesday, May 31



Big Lakes and Environmental Change: A View from Lake Baikal Plenary featuring Marianne Moore

Aquatic Ecologist Wellesley College *Wellesley, MA*

Dr. Marianne Moore, an aquatic ecologist at Wellesley College, has been conducting research and teaching a course at Lake Baikal, Siberia for the past 10 years. Her interdisciplinary field course led her to Dr. Lyubov Izmest'eva, the director of a biological station on Baikal's southern shore, where Dr. Izmest'eva and her colleagues are collecting long-term data on the biological and physical characteristics

of the lake. Dr. Izmest'eva is the third generation of a single family of Siberian scientists who have monitored the lake since 1946.

Dr. Moore's research collaboration expanded with funding from the U.S. National Center for Ecological Analysis and Synthesis, and the Russian-American team discovered recently that Lake Baikal has warmed rapidly. In addition, the base of the pelagic food web has reconfigured in a way that is consistent with this warming. Ice characteristics of Lake Baikal are also changing, and are projected to strongly affect the lake's endemic diatoms and top predator, the Baikal seal, by the end of the 21st century. Current research examines how the spatial distribution and abundance of certain plankton (warm-water, cosmopolitan species, cold-water, and endemic species) are shifting as the lake warms.

About Dr. Moore

Marianne Moore is a Professor in the Department of Biological Sciences at Wellesley College. Her research focuses on freshwater plankton communities and how physical (temperature, light) and biological (predation) factors structure these communities. She is currently co-leading a team of Russian and American scientists who are analyzing a 60-year data set for Lake Baikal, the world's oldest, deepest, largest (by volume), and most biotically diverse lake.

Plenary Speaker – Wednesday, June 1



Climate Related Variations in Mixing Dynamics in the African Great Lakes Plenary featuring Sally MacIntyre

Physical Limnologist/Oceanographer University of California Santa Barbara Santa Barbara, CA

Time series data from multiple Great African Lakes indicate a warming trend with consequences for the biota within the lakes. Climate change, however, also causes changes in temperatures on land and adjacent oceans, with resulting changes in wind and rainfall patterns which have the potential to affect thermal structure and mixing dynamics in the African Great Lakes.

Using examples particularly from Lakes Victoria and Tanganyika, Dr. MacIntyre will discuss historical trends, and illustrate the importance of cooling and wind events for moderating thermal structure and depth of mixing within the lakes. She will review climate data with respect to the larger scale controls on mixing dynamics and to address future variability in thermal structure and vertical exchange, which are important for regulating nutrient fluxes and the persistence of anoxic conditions.

About Dr. MacIntyre

Sally MacIntyre is a Professor in the Department of Ecology, Evolution and Marine Biology at the University of California Santa Barbara. She is a physical limnologist/oceanographer with a particular interest in turbulence and its implications for aquatic ecosystem function. She studies lakes from the tropics to the Arctic, and currently also has projects on kelp forests, coral reefs, and vegetated embayments.

Plenary Speaker – Thursday, June 2



The Asian Carp Control Strategy Plenary featuring John Goss

Asian Carp Director Council on Environmental Quality Executive Office of the President *Washington, DC*

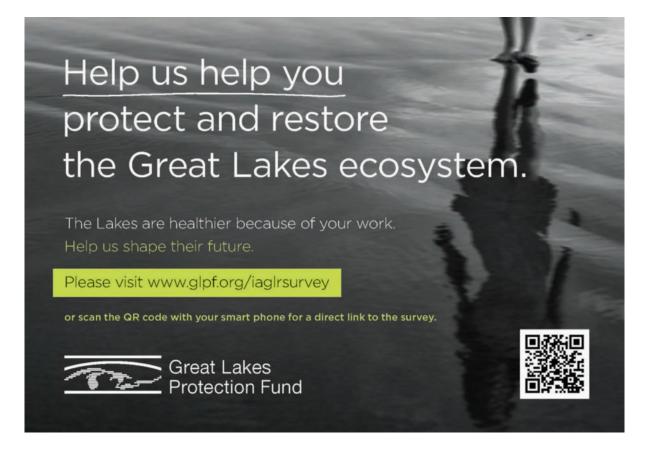
John Goss serves as the principal advisor to Council on Environmental Quality (CEQ) Chair Nancy Sutley on Asian carp issues, and oversees the coordination of federal, state, and local efforts to keep Asian carp from establishing populations in the Great Lakes ecosystem. As chair of the Asian Carp Regional Coordinating

Committee, Mr. Goss's work continues the Obama Administration's proactive response to the threat that Asian carp pose to the Great Lakes.

The Asian Carp Control Strategy Framework, released in February 2010 and updated in May 2010, unifies federal, state and local action in an unparalleled effort to combat invasive species. Mr. Goss's talk will describe the elements of this control strategy and the plans and progress for implementation.

About Mr. Goss

John Goss was recently appointed as Asian carp director for the presidential Council on Environmental Quality. Prior to that, he served for four years as executive director of the Indiana Wildlife Federation, where he worked with conservation, business and industry groups to support the Great Lakes Compact. Other positions Mr. Goss has held include director of the Indiana Department of Natural Resources, vice-chair of the Great Lakes Commission, director of tourism for the State of Indiana, and chair for the Great Lakes International Marketing Initiative. Mr. Goss has also served as chief of staff for Indiana Lt. Governor Frank O'Bannon, as district director for Indiana Congressman Frank McCloskey, and as deputy mayor for the City of Bloomington, Indiana. Mr. Goss received his Master of Public Affairs and his B.A. in Economics from Indiana University.



Notes

General Information

General Conference Information

Internet Access

Open wireless Internet has been provided throughout the DECC by IAGLR for your convenience.

Speaker Ready Room

The speaker ready room (St. Louis River Room) will be available from 4:00 to 8:00 p.m. Monday night and 7:30 a.m. to 6:00 p.m. Tuesday and Wednesday. On Thursday, speakers can load and check their presentations at the registration desk between 7:45 a.m. and 5:00 p.m.; on Friday the same can be done between 7:45 and 10:30 a.m.

Presentation and Poster Guidelines

Oral Presentation

Each speaker has 20 minutes (15 min for the presentation, followed by 5 min for Q & A and transition to next speaker). Time limits will be enforced.

An LCD projector and dedicated computer will be available in each room, as will a laser pointer. Presenters may not use their own laptop.

Bring your presentation on a USB flash drive or CD to the speaker ready room for uploading at least 4 hours prior to the start of your session (Monday evening for those speaking Tuesday morning). Verify that your presentation works properly on the conference computer system before leaving the speaker ready room.

Name your presentation file in the format "Sess#_PresenterLastName_DayTime". For example, presenter Jane Doe, speaking in Session 6: Large Asian and African Lakes on Tuesday at 9:40 a.m. would name her talk "Sess6_Doe_Tue940". Use 12-hr rather than 24-hr time and omit the colon between hours and minutes. Verify your session number and presentation time by visiting the program page on the conference website (www.iaglr.org/conference/program.php).

Presentations should be in PowerPoint format. Conference computers will be running MS Office 2010 in a Windows operating system, and will be able to handle any version of PowerPoint back to 1997. If you have concerns about compatibility (e.g., coming from a Mac operating system), bring a PDF-file version of your talk as a backup. Computers will have wireless Internet access, but such connections can occasionally be problematic. If your talk involves an Internet demonstration, incorporate screen shots into your PowerPoint rather than relying on a live Internet session. Consider packaging your presentation for playing on ANY computer. This will prevent problems with symbols and fonts changing, graphics not appearing, video files not playing, etc., when moving from a Mac or switching between PowerPoint versions. Depending on the version of PowerPoint, this option may be called "save to CD", "package for CD", or "pack and go". On PowerPoint 2007, the option is under the Publish choice from the main drop-down menu (the Office symbol in the upper left corner).

Poster Presentation

The poster social will be Tuesday, May 31, from 5:00 to 7:00 p.m. Authors of odd-numbered posters should stand by their posters from 5:00 to 6:00 p.m.; authors of even-numbered posters should do the same from 6:00 to 7:00 p.m. This will provide an opportunity for interested viewers to discuss your poster with you. Students being judged should stand by their poster for the entire two hours to ensure that judges have time to conduct interviews.

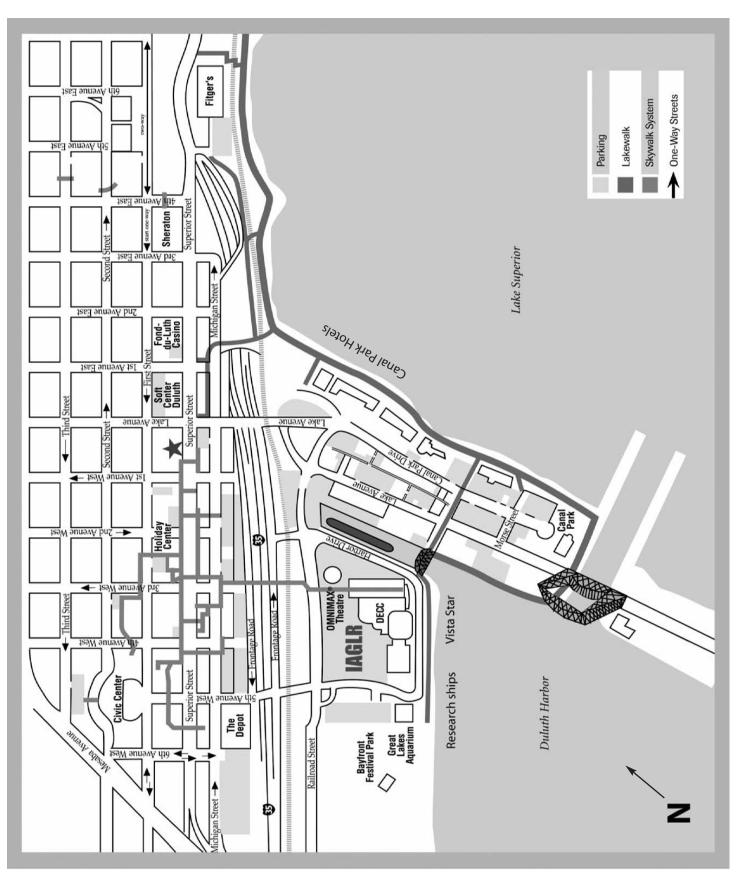
The poster exhibit hall will be open for the duration of the conference, so you will be able to hang your poster as soon as you arrive, and have it displayed for several days. Posters need to be put up before 5:00 p.m., Tuesday, and taken down no later than noon on Friday. To find where your poster is to be hung, cross-reference the poster board ID number with the number listed by your poster at the end of this program book.

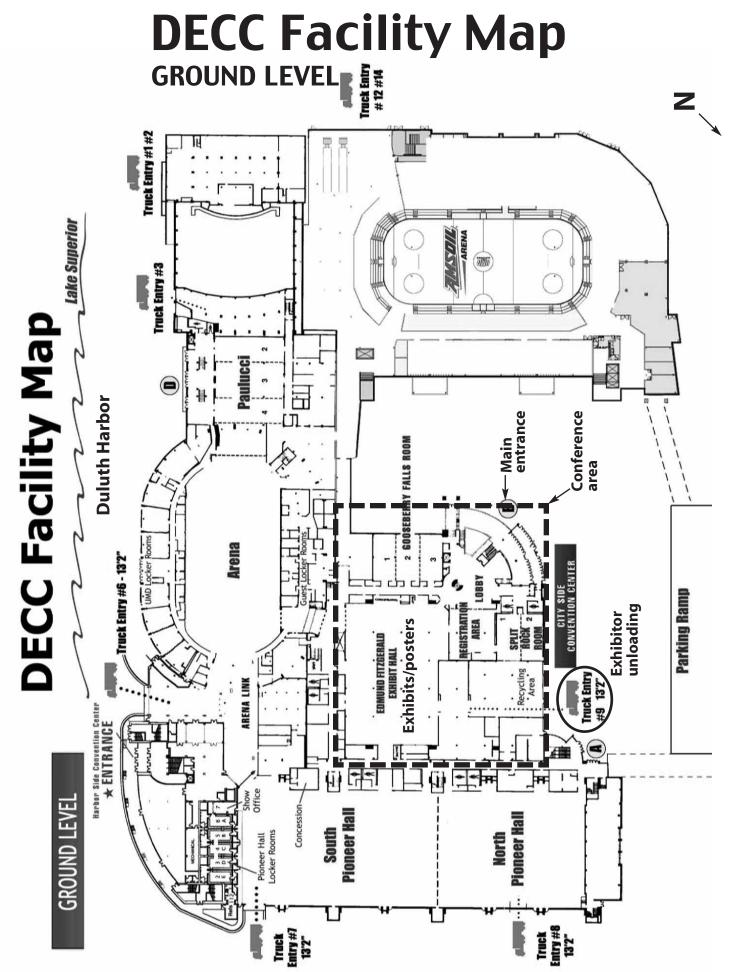
Please see the poster volunteer if you forgot to bring your own pins.

Presentations and posters are the property of the presenters. Audio recording, copying, videotaping, or photographing of a presentation or poster without the express permission of the presenter is prohibited.

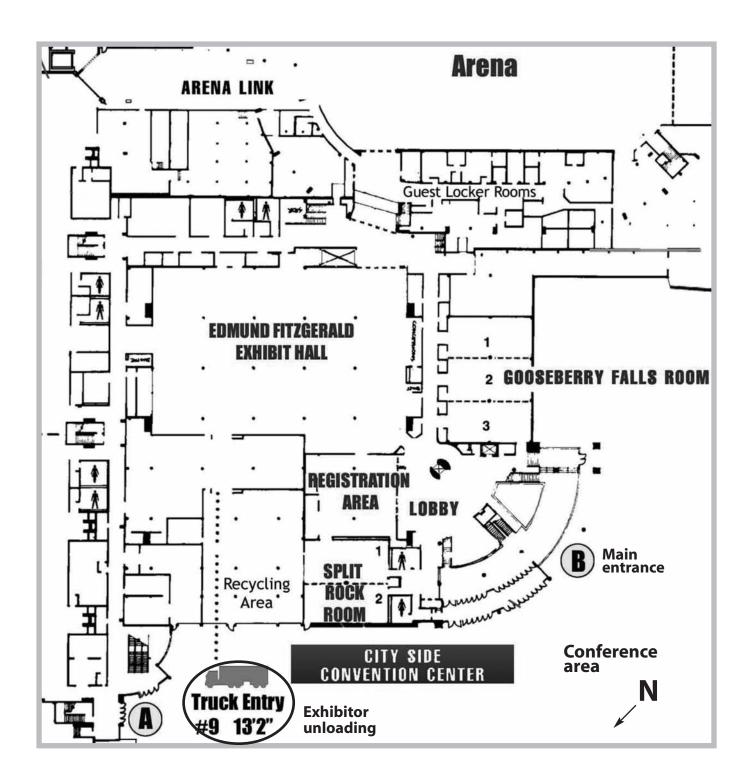


Downtown Map

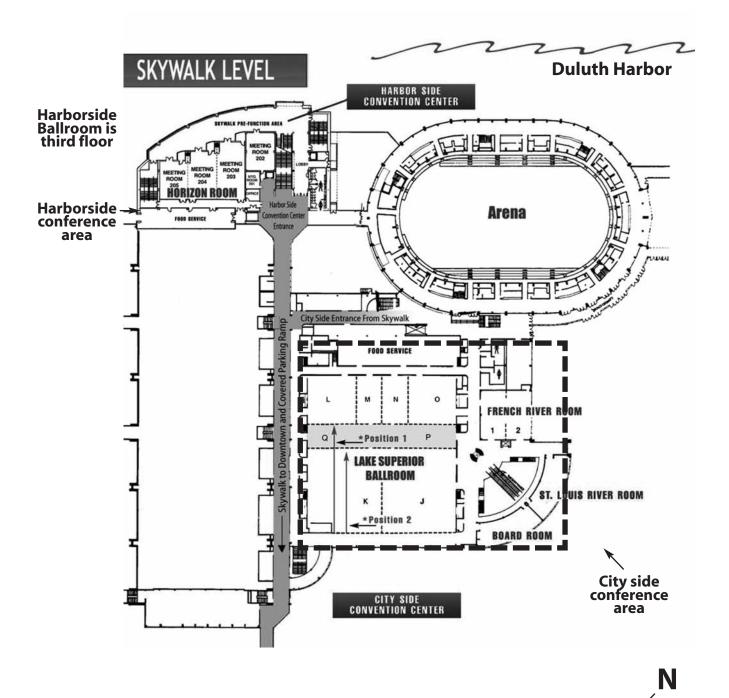




DECC Facility Map GROUND LEVEL CLOSE UP



DECC Facility Map



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Meals

The following meals are included with your registration

- Coffee and tea in the morning
- Coffee, tea, lemonade, and snacks at the morning and afternoon breaks
- Monday Welcome Reception (finger foods, 1 free drink ticket, then cash bar)
- Tuesday Poster and Exhibitors Reception (finger foods, 1 free drink ticket, then cash bar)
- Wednesday Business Lunch (lunch provided)
- Wednesday IAGLR Dinner Banquet (dinner provided, 1 free drink ticket, then cash bar)

Graduate students (only) are encouraged to attend the Graduate Student Mixer and Pizza Cruise aboard the *Vista Star* on Tuesday evening following the poster reception. Pizza and 1 free drink provided; cash bar.

Box lunches for Tuesday and Thursday purchased during registration will be available for pick-up in the Harborside Ballroom. Local restaurants serve lunch, but not always speedily. Consider your time constraints before ordering.

Local Restaurants by Cuisine

Restaurants in Canal Park, Downtown, or Fitger's area are within comfortable walking distance of the DECC and the conference hotels.

American

- Fitger's Brewhouse & Grille, 600 E. Superior St., 218-279-2739 (Fitger's)
- Grandma's Saloon & Grill, 522 Lake Avenue S., 218-722-4724 (Canal Park)
- Green Mill, 340 Lake Avenue, 218-727-7000 (Canal Park)
- Lake Avenue Café, Dewitt-Seitz Bldg., 394 Lake Avenue S., 218-722-2355 (Canal Park)
- Northern Waters Smokehaus, Dewitt-Seitz Bldg., 394 Lake Avenue S., 218-724-7307 (Canal Park)
- Pickwick, 508 E. Superior St., 218-727-8901 (Fitger's)
- Red Lobster, 301 S. Lake Avenue, 218-722-7390 (Canal Park)
- Sir Benedicts Tavern on the Lake, 805 E. Superior St., 218-728-1192 (Fitger's area)
- Top of the Harbor, Radisson Harborview Restaurant, 505 W. Superior St., 218-727-8981 (Downtown)
- Zeitgeist Arts Café, 222 E. Superior St., 218-722-9100 (Downtown)

Barbeque

• Famous Dave's Restaurant, 355 Lake Ave. S., 218-740-3180 (Canal Park)

Italian

- Bellisio's Restaurant, 405 Lake Ave. S., 218-727-4921 (Canal Park)
- Va Bene, 734 E. Superior St., 218-722-1518 (Fitger's area)

Miscellaneous

- Hanabi Japanese Cuisine, 110 N. 1st Ave. W., 218-464-4412 (Downtown)
- India Palace, 319 W. Superior St., 218-727-8767 (Downtown)
- Takk for Maten Cafe, Tech Village, 11 E. Superior St., 218-464-1260 (Downtown)
- Amazing Grace Bakery, 394 S. Lake Ave., 218-723-0075 (Canal Park)

Pizza

- Old Chicago, 327 Lake Ave. S., 218-720-2066 (Canal Park)
- Pizza Luce, 11 E. Superior St., 218-727-7400 (Downtown)
- Sammy's, 301 W. First St., 218-727-8551 (Downtown)

Southwestern

- Hacienda Del Sol, 319 E. Superior St., 218-722-7296 (Downtown)
- Little Angie's Cantina & Grill, Dewitt-Seitz Bldg., 11 E. Buchanan St., 218-727-6117 (Canal Park)
- Mexico Lindo, 600 E. Superior St., 218-740-2300 (Fitger's)

Thai

• Thai Krathong Restaurant and Bar, 308 Lake Ave. S., 218-733-9774 (Canal Park)

Vietnamese

• Taste of Saigon, Dewitt-Seitz Bldg., 394 Lake Ave. S., 218-727-1598 (Canal Park)

General Attractions

Downtown and Canal Park

Duluth Lakewalk

Extending along the Lake Superior waterfront from Canal Park beyond 26th Ave E.

www.duluthmn.gov/parks/lakewalk.cfm

This 4.2 mile pedestrian and bicycle path starts in Canal Park by the Aerial Lift Bridge, and takes you north and east along the Lake Superior shoreline past the Vietnam Veterans and Korean War Memorials, the Fitger's area restaurants and shops, and through Leif Erickson Park and the Rose Garden.

Duluth 10 Theatre

300 Harbor Drive, Duluth, MN 55802 (218) 729-0335 www.marcustheatres.com/Theatre/TheatreDetail/172/

The Depot

506 West Michigan Street, Duluth, MN 55802 www.duluthdepot.org Open 9:30 a.m. - 6:00 p.m. Cost: Adults 13 and over - \$12; Children - \$6; Under 2 - free. AAA and AARP - 10% discount. Home to Duluth Art Institute, Lake Superior Railroad Museum.

North Shore Scenic Railroad

(218) 722-1273

www.northshorescenicrailroad.org

Trains depart from behind The Depot; cost varies. Riding in vintage open and air-conditioned coaches, you'll cross over North Shore rivers that splash and tumble towards Lake Superior while your narrator explains the history of our region and the role that railroads played in its development. Excursions run daily during the summer.

Glensheen Historic Estate

3300 London Road, Duluth, MN 55804 (218) 726-8910

www.glensheen.org

Built in 1905 and 1908 as the home for Chester and Clara Congdon, Glensheen is an architectural and decorative arts masterpiece. With original furnishings, artwork, and family treasures, this magnificent 39-room mansion offers a dramatic slice of opulent life at the turn of the last century. The 7.6-acre estate includes a museum shop, a carriage house, a boat house, formal gardens, and meandering pathways—all on the shores of Lake Superior. There is an entrance fee.

Great Lakes Aquarium

353 Harbor Drive, Duluth, MN 55802 (218) 740-FISH (3474)

www.glaquarium.org

Located on the waterfront in Duluth next door to the DECC. Visitors experience the geologic forces that shaped Lake Superior, watch as divers feed fish in a massive two-story tank, raise and lower locks on a scale model of the Great Lakes, pilot a virtual ore boat under the Aerial Lift Bridge, and pet young sturgeon and freshwater stingrays. **Special rates for** **IAGLR attendees and guests** at the reduced group admission rate (\$9/adult, \$5/child) by showing their IAGLR badges.

Lake Superior Maritime Visitor Center

(US Army Corps of Engineers) 600 Canal Park Drive, Duluth, MN 55802 (218) 720-5260

www.lsmma.com

Film shows, model ships and exhibits featuring commercial shipping activities on Lake Superior and in the Duluth-Superior Harbor. At Canal Park you are within yards of giant lake carriers and foreign ships as they pass under the world-famous Aerial Lift Bridge. No admission fee.

Park Point Beach

www.mnbeaches.org/beaches/lksuperior/B003.shtml Walk over the Aerial Lift Bridge and you'll be on Minnesota Point, the second longest freshwater sand bar in the world. It's about 7 miles long and includes 59 acres of land. Its only connection to the mainland is the Arial Lift Bridge at its entrance.

S.S. William A. Irvin Ore Boat Museum

350 Harbor Drive, Duluth, MN 55802 (218) 722-7876; (218) 727-0022 www.duluthfloatingmuseum.com The *William A. Irvin* was the proud flagship of the U.S. Steel's Great Lakes Fleet. The Irvin provided elegance and comfort to the dignitaries and guests it carried. From the millions of tons of iron ore loaded, to its magnificently appointed wood-paneled staterooms and fine dining, the *Irvin* was the pride of the fleet. Open daily, guided tours only. Kids 10 and under FREE with paid adult.

Adventure Zone & Vertical Endeavors

329 Lake Ave S., Duluth, MN (218) 740-4000 and (218) 279-9980 adventurezoneduluth.com/ and www.verticalendeavors.com/duluth/index There is something for everyone at the Adventure Zone of Canal Park! The Northland's newest family attraction boasts over 50,000 square feet of fun featuring multi-level Laser Tag, Batting Cages, Mini Golf, the largest video/redemption arcade in the area, Vertical Endeavors rock climbing walls, a kid's playground, an 18' inflatable fire truck slide and more! Open Sun 10 a.m.-10 p.m., Mon-Thur 2 p.m. to 10 p.m., and Fri-Sat 10 a.m. to midnight.

Vista Fleet

(218) 722-6218

vistafleet.com

Located next to the DECC. Enjoy the refreshing experience of cruising on Lake Superior and the Duluth-Superior Harbor in Minnesota and Wisconsin, while discovering what makes it America's great inland world port. Two-hour sightseeing cruises start at \$16 for adults and \$8 for children. Great options to consider for accompanying guests, or before or after the conference!

General Attractions

North Shore Attractions

Fishing the North Shore and Lake Superior

There are many fishing opportunities in the Duluth/ Superior area, and fishing during the conference should be excellent. If you want to get out on the big lake for lake trout, salmon, or walleye fishing there are many excellent charter fishermen in Duluth and Superior (www.fishduluth.com). They can also take you into the St. Louis River estuary for walleye, where you may also catch northern pike and musky. If you prefer stream fishing or shore casting, there are several excellent trout streams both along Minnesota's north shore and along Wisconsin's south shore. Bring your own fishing equipment and check out this Lake Superior and North Shore Trout Stream Fishing Guide:

files.dnr.state.mn.us/maps/trout_streams/ns_fishing_gu ide02.pdf. You are only a short drive from the famous Wisconsin Brule River. Check out this Web site for more information about fishing this classic trout stream and other fly fishing opportunities in the area: www.arrowheadflyangler.com.

Gooseberry Falls State Park

30 miles north from Duluth on Highway 61 www.dnr.state.mn.us/state_parks/gooseberry_falls/index This gateway to the North Shore is known for its spectacular waterfalls, river gorge, Lake Superior shoreline, Civilian Conservation Corps log and stone structures, and north woods wildlife. With miles of hiking trails, handicap-accessible trails to the falls, a beautiful visitor's center, and numerous geologic formations, this park has something for everyone. Hike to the Fifth Falls through a forest of evergreens, aspen, and birch, and enjoy camping, picnicking, and relaxing along the Lake Superior shoreline or the Gooseberry River.

Split Rock Lighthouse State Park

48 miles north from Duluth on Highway 61 northshorevisitor.com/state-parks/split-rock The horrific shipwrecks of 1905 fueled the demand for a lighthouse along Superior's North Shore. The amazing construction process was completed in 1910, and the light at Split Rock shone until 1969. The history center's superb displays, exhibits, and video presentations showcase the evolution of the lighthouse. The path leading southwest down to Lake Superior presents a distinctive view of the lighthouse and remnants of the lift that was used to haul supplies up from the lake. Climb the short, steep circular stairs to the top of the lighthouse.

Lake Superior Hiking Trail

www.shta.org

The Superior Hiking Trail is a 277-mile footpath that largely follows the rocky ridgeline above Lake Superior on Minnesota's North Shore from Duluth to the Canadian border. Spectacular views wait those who take the time to get out and hike. There are trailhead parking lots every 5-10 miles making it ideal for both day hikes and backpack camping. There are 82 backcountry campsites with no fees, reservations or permits required to hike or camp on the trail. Dogs are allowed on leash only.

Lake Superior Zoo

Off of 72nd Avenue West and Grand Avenue, 7210 Fremont Street, Duluth, MN 55807 (218) 730-4900

www.lszoo.org

You'll find hundreds of animals at the Lake Superior Zoo. Located just 10 minutes from Downtown Duluth, the zoo offers year-round recreational opportunities for animal lovers of all ages. The Lake Superior Zoo is situated on 16 acres of rocky hills, majestic pines and the beautiful Kingsbury Creek in West Duluth's Spirit Valley. Summer Hours: 10:00 a.m. to 5:00 p.m. Cost: Adults 13 and over- \$9; Children-\$4; Under 2-free.

Waterfall Hiking

Nearly every stream that flows into Lake Superior along the North Shore does so in style and enters with a splash. Starting in Duluth with Chester Creek and continuing all the way up the north shore, many streams have hiking trails that guide you to their waterfalls. Many are short, easy hikes, but there are more challenging hikes available for those who are interested. Visit northshorevisitor.com/activities/waterfalls for a waterfall list and directions.

South Shore Attractions

Amnicon Falls State Park

25 miles east from Duluth (15 miles east of Superior) on Highway 2

dnr.wi.gov/org/land/parks/specific/amnicon/

This park features a series of delightful waterfalls and rapids along the Amnicon River. You can view them from a covered foot bridge or trails along the river or from the rocky shore of the river. The park is a place to picnic, camp, walk in the woods, and learn about the Douglas Fault, the geological formation that created the falls.

Pattison State Park

13 miles south of Superior on Highway 35 (Tower Ave. in Superior)

www.dnr.state.wi.us/org/land/parks/specific/pattison/ Pattison State Park features the highest waterfalls in Wisconsin and the fourth highest waterfall east of the Rocky Mountains. Big Manitou Falls is 165 high, and Little Manitou Falls is 31 feet high. The 1,436acre park also has a lake with a beach, nature programs and guided hikes, a nature center, camping, 9 miles of hiking trails, and abundant wildlife.

Program Sessions Program overview for Tuesday, May 31 through Friday, June 2

Tuesday, May 31

8:00 a.m 10:20 a.m.	2. Extreme or Catastrophic Events in Lakes and Rivers <i>Horizon Room 202</i>
8:00 a.m 10:20 a.m.	39. Fish and Fisheries in Large Lakes <i>Horizon Room 203</i>
8:00 a.m 10:00 a.m.	6. Large Asian and African Lakes <i>Horizon Room 204</i>
8:00 a.m 10:20 a.m.	18. Recent Impacts of Invasive Species on the Great Lakes Ecosystem <i>Gooseberry Falls Room</i>
8:00 a.m 10:20 a.m.	21. Assessing Effects of Toxic Substances in the Great Lakes Split Rock Room
8:00 a.m 10:00 a.m.	26. Data and Model Uncertainty in the Study of Lake Watersheds <i>Horizon Room 205</i>
8:00 a.m 10:00 a.m.	33. Science, Civic Engagement, and Undergraduate Education Initiatives <i>French River Room</i>
10:40 a.m 11:10 a.m.	Opening Ceremonies Lake Superior Ballroom
11:10 a.m 12:10 p.m.	Plenary, Dr. Marianne Moore Lake Superior Ballroom
1:40 p.m 3:20 p.m.	29. Paleoclimate Records of Large Lakes <i>Horizon Room 202</i>
1:40 p.m 3:00 p.m.	39. Fish and Fisheries in Large Lakes <i>Horizon Room 203</i>
1:40 p.m 5:20 p.m.	10. Exploring Food Web Linkages and Dynamics in the Upper Great Lakes: Past, Present and Future <i>Horizon Room 204</i>
1:40 p.m 5:00 p.m.	18. Recent Impacts of Invasive Species on the Great Lakes Ecosystem <i>Gooseberry Falls Room</i>
1:40 p.m 5:00 p.m.	16. Linkages Between the Landscape and Great Lakes Coastal Ecosystems <i>Split Rock Room</i>
1:40 p.m 4:20 p.m.	25. Web-based Tools for Managing Aquatic Resources in Great Lakes <i>Horizon Room 205</i>
1:40 p.m 4:40 p.m.	36. Large Lakes Science Solutions - Research Leading to Management Tools and Development of Policy <i>French River Room</i>
3:40 p.m 5:20 p.m.	1. Physical Processes in Lakes Horizon Room 202
3:40 p.m 5:00 p.m.	7. Molecular and Isotopic Insights into Biogeochemical Cycling of Organic Matter in Aquatic Systems Horizon Room 203
5:00 p.m 7:00 p.m.	Poster Reception and Judging, and Exhibitor Reception <i>Edmund Fitzgerald Hall</i>

Wednesday, June 1

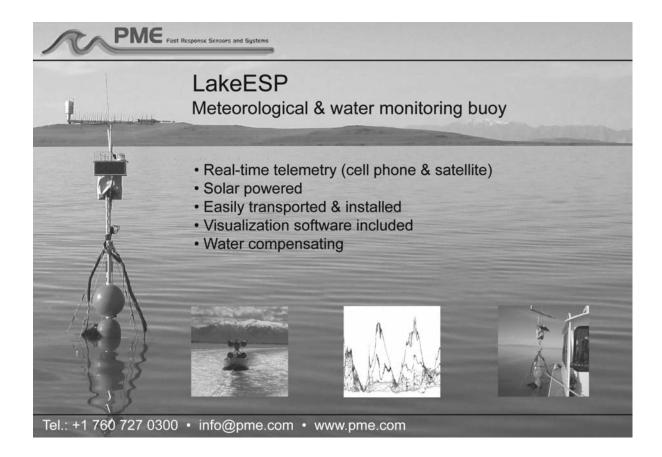
8:00 a.m 11:00 a.m.	1. Physical Processes in Lakes Horizon Room 202
8:00 a.m 11:00 a.m.	14. Coastal Wetlands of North American Great Lakes <i>Horizon Room 203</i>
8:00 a.m 11:00 a.m.	23. Microbial Issues in Great Lakes <i>Horizon Room 204</i>
8:00 a.m 11:00 a.m.	22. Nutrients, Eutrophication, Hypoxia, and Harmful Algal Blooms <i>Gooseberry Falls Room</i>
8:00 a.m 11:00 a.m.	16. Linkages Between the Landscape and Great Lakes Coastal Ecosystems Split Rock Room
8:00 a.m 11:00 a.m.	24. Remote Sensing, Visualization, and Spatial Data Applications for the Great Lakes <i>Horizon Room 205</i>
8:20 a.m 10:40 a.m.	36. Large Lakes Science Solutions - Research Leading to Management Tools and Development of Policy <i>French River Room</i>
11:10 a.m 12:10 p.m.	Plenary, Dr. Sally MacIntyre Lake Superior Ballroom
1:40 p.m 5:20 p.m.	3. Climate Variability in Large Lakes Mediated by Continental-to-Global Scale Forcing <i>Horizon Room 202</i>
1:40 p.m 5:20 p.m.	11. Gobies in the Great Lakes and Their Watersheds <i>Horizon Room 203</i>
1:40 p.m 5:20 p.m.	10. Exploring Food Web Linkages and Dynamics in the Upper Great Lakes: Past, Present and Future <i>Horizon Room 204</i>
1:40 p.m 5:20 p.m.	22. Nutrients, Eutrophication, Hypoxia, and Harmful Algal Blooms <i>Gooseberry Falls Room</i>
1:40 p.m 3:20 p.m.	16. Linkages Between the Landscape and Great Lakes Coastal Ecosystems Split Rock Room
1:40 p.m 3:20 p.m.	24. Remote Sensing, Visualization, and Spatial Data Applications for the Great Lakes <i>Horizon Room 205</i>
1:40 p.m 5:20 p.m.	31. Coordinated Nearshore Monitoring and Research in Lake Michigan <i>French River Room</i>
3:40 p.m 5:20 p.m.	35. Great Lakes Adaptive Management and Climate Change Split Rock Room
3:40 p.m 5:20 p.m.	8. Genetics, Genomics and Metagenomics in Great Lakes Microbial Communities <i>Horizon Room 205</i>
6:00 p.m 9:00 p.m.	Banquet and Mixer Lake Superior Ballroom

Thursday, June 2

3. Climate Variability in Large Lakes Mediated by Continental-to-Global Scale Forcing <i>Horizon Room 202</i>
13. History, Ecology, and Management of Aquatic Communities in Great Lakes Connecting Channels Horizon Room 203
19. Great Lakes and Global Invasions <i>Horizon Room 204</i>
22. Nutrients, Eutrophication, Hypoxia, and Harmful Algal Blooms <i>Gooseberry Falls Room</i>
27. Great Lakes Observation Networks <i>Horizon Room 205</i>
30. Making a Great Lake Superior: Past, Present and Future <i>French River Room</i>
37. Science to Management in the St. Louis River Area of Concern Split Rock Room
5. Assessing Dynamics of the Great Lakes Water Budget <i>Horizon Room 202</i>
Plenary, Mr. John Goss Lake Superior Ballroom
5. Assessing Dynamics of the Great Lakes Water Budget <i>Horizon Room 202</i>
13. History, Ecology, and Management of Aquatic Communities in Great Lakes Connecting Channels <i>Horizon Room 203</i>
19. Great Lakes and Global Invasions <i>Horizon Room 204</i>
22. Nutrients, Eutrophication, Hypoxia, and Harmful Algal Blooms <i>Gooseberry Falls Room</i>
32. Education and Outreach: Applying Science to Problem Solving Split Rock Room
15. Ecosystem Effects of Changing Water Level Regimes <i>Horizon Room 205</i>
30. Making a Great Lake Superior: Past, Present and Future <i>French River Room</i>
17. Contaminants of Concern: How Far Have We Come and Where Are We Going? <i>Gooseberry Falls Room</i>

Friday, June 3

8:00 a.m 12:00 p.m.	4. Global Trends in Lake Temperature and Associated Impacts on Lacustrine Systems <i>Horizon Room 202</i>
8:00 a.m 11:20 a.m.	12. Restoration and Management of Native Deep-water Fish Communities in the Great Lakes <i>Horizon Room 203</i>
8:00 a.m 10:00 a.m.	9. Changes in Lower Food-Webs: Among-Lake Comparisons from Biological Monitoring Programs <i>Horizon Room 204</i>
8:00 a.m 12:00 p.m.	17. Contaminants of Concern: How Far Have We Come and Where Are We Going? <i>Gooseberry Falls Room</i>
8:00 a.m 11:40 a.m.	32. Education and Outreach: Applying Science to Problem Solving Split Rock Room
8:00 a.m 11:00 a.m.	28. Ballast Water Treatment and the Great Lakes <i>Horizon Room 205</i>
8:00 a.m 11:40 a.m.	30. Making a Great Lake Superior: Past, Present and Future <i>French River Room</i>
12:00 p.m.	IAGLR Conference Ends





	Horizon Room 202	Horizon Room 203	Horizon Room 204
	2. Extreme or Catastrophic Events in Lakes and Rivers Co-Chairs: Eric Anderson and Chin Wu	39. Fish and Fisheries in Large Lakes <i>Chair: Timothy Johnson</i>	6. Large Asian and African Lakes Co-Chairs: Kenton Stewart and Barry Lesht
	Presented by / Title	Presented by / Title	Presented by / Title
8:00	D.J. Schwab Winds and Waves on Lake Superior Associated with the Wreck of the <i>Edmund</i> <i>Fitzgerald</i>	M.J. Catalano and J.R. Bence The Effects of Ageing Error on Stock Assess- ments for Lake Whitefish in Lake Huron	L.M. Korytny Anthropogenic Impacts on Baikal's Biota
8:20	P.C. Liu Contemplating Freaque Waves in the Great Lakes	R.T. Andvik et al. Proportional Stock Harvest of the Lake Whitefish Commercial Fishery in Lake Michigan	<u>K.M. Stewart</u> Lake Baikal
8:40	<u>A.J. Bechle</u> et al. Monitoring and Characterization of Freak Waves in Lake Superior	X. Zhu et al. Modeling Time-varying Growth Pattern of Lake Whitefish (<i>Coregonus</i> <i>clupeaformis</i>) using Hierarchical Bayesian Growth Models	M.A. Stapanian <i>et al.</i> Changes in Benthic Community Biomass and Energy Budgets in Lake Sevan, 1928-2004
9:00	J.D. Anderson and C.H.Wu Extreme Wave Modeling Around the Apostle Islands, Lake Superior	D.A. Lichti and S.J. Czesny Naturally Occurring Thermal Variation in Southwestern Lake Michigan May Greatly Affect Yellow Perch Growth During Embryonic and Larval Stages	T.D. Ahrenstorff et al. Abundance, Spatial Distribution, and Diet of the Endangered Hovsgol Grayling (<i>Thymallus</i> <i>nigrescens</i>) in Lake Hovsgol, Mongolia

continued on page 30

Gooseberry Falls	Split Rock Room	Horizon Room 205	French River Room	
18. Recent Impacts of Invasive Species on the Great Lakes Ecosystem <i>Co-Chairs: Henry Vanderploeg,</i> <i>Gary Fahnenstiel, and</i> <i>Craig Stow</i>	21. Assessing Effects of Toxic Substances in the Great Lakes <i>Co-Chairs: Joe Tietge and</i> <i>Mark McMaster</i>	26. Data and Model Uncertainty in the Study of Lake Watersheds <i>Co-Chairs: Janel Hanrahan,</i> <i>Nir Krakauer, and Boris</i> <i>Shmagin</i>	33. Science, Civic Engagement, and Undergraduate Education Initiatives Co-Chairs: Joseph Koonce and Douglas Kane	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	
<u>G. Fahnenstiel</u> <i>et al.</i> Dreissenids and the Accidental Oligotrophication of Lake Michigan	J.E.Tietge et al. A Strategy to Assess the Effects of Potentially Toxic Substances in the Great Lakes	L.J. Blume et al. Uncertainty Analysis for the U.S. EPA's Great Lakes Fish Monitoring and Surveillance Program	J.F. Koonce et al. Civic Engagement of Students through Analysis of Effects of Urbanization on Watershed Processes	8:00
M.A. Evans <i>et al.</i> Inadvertent Oligotrophication of North American Great Lakes	<u>W.E. Johnson</u> <i>et al.</i> NOAA's Enhanced Great Lakes Mussel Watch Program: Monitoring Contaminant Levels in Mussels and Sediment	S.C. Abou Assessment of the Safety of Marine Environment Incorporating Waste Heterogeneity and Data Uncertainty	<u>S. Petersen</u> <i>et al.</i> Wetland Lab Module with a Civic Engagement Component: Pedagogical Challenges and Student Learning Gains	8:20
W.C. Kerfoot <i>et al.</i> Approaching Storm: Update on Disappearing <i>Chl a</i> in Lake Michigan and Food Web Responses	J.J. Ridal et al. Mercury Bioaccumulation at Nearshore Areas in the St. Lawrence River (Cornwall) AOC	L.H. Weintraub et al. Evaluation of Blanchard River Watershed Sediment and Nutrient Loading Under Baseline and Improved Management Conditions	A.C. Dorobek et al. Stewardship Liaisons Provide Service Learning Opportunities through Unique Academic and Community Partnerships	8:40
H.A. Vanderploeg et al. Response of the Zooplankton Community to the Newly Re-engineered, Spatially Complex Lake Michigan Ecosystem	<u>X. Zhang</u> et al. Global and Local Contributions to Mercury Concentrations in Lake Michigan and Impact on Fish Consumption Advisories	M. Hondzo and <u>S. Missaghi</u> Lake Minnetonka ELCOM- CAEDYM Ecological Modeling: Parameter Estimation, Sensitivity, and Uncertainty Analysis	<u>E.P. Argyilan</u> et al. Collaborations in Watershed Studies in Northwest Indiana Created through The Great Lakes Innovative Stewardship Through Education Network (GLISTEN)	9:00

continued on page 31

	Horizon Room 202	Horizon Room 203	Horizon Room 204			
	2. Extreme or Catastrophic Events in Lakes and Rivers <i>Co-Chairs: Eric Anderson</i> <i>and Chin Wu</i>	39. Fish and Fisheries in Large Lakes Chair: Timothy Johnson	6. Large Asian and African Lakes Co-Chairs: Kenton Stewart and Barry Lesht			
	Presented by / Title	Presented by / Title	Presented by / Title			
9:20	K. Hu and <u>Q.J. Chen</u> Directional Spectra of Extreme Waves	L.N. Ivan <i>et al.</i> Factors Influencing Yellow Perch Recruitment in Saginaw Bay, Lake Huron	<u>Y.Y.Wang</u> <i>et al.</i> Food Web Dynamics in Lake Poyang Related to Water-level Fluctuation			
9:40	J. Austin and P. Cheng An Extraordinary Upwelling Event in Lake Superior During Summer 2010	T.J. Sullivan <i>et al.</i> Fine-scale Population Genetic Structure of Lake Erie Yellow Perch <i>Perca flavescens</i>	<u>L.M. Campbell</u> et al. Mercury Biomagnification in Selected Chinese Lakes			
10:00	<u>J.R. Reimer</u> et al. Meteo-tsunami in Lake Michigan	A.E. Haponski et al. Temporal and Spatial Genetic Patterns of Lake Erie Walleye Spawning Groups				
10:20	BREAK					
10:40	Opening Ceremonies and Ple	Opening Ceremonies and Plenary, Lake Superior Ballroom				
12:20	Lunch on your own (Pre-orde	ered box lunches, Harborside Ba	allroom)			

	French River Room	Horizon Room 205	Split Rock Room	Gooseberry Falls
	33. Science, Civic Engagement, and Undergraduate Education Initiatives Co-Chairs: Joseph Koonce and Douglas Kane	26. Data and Model Uncertainty in the Study of Lake Watersheds <i>Co-Chairs: Janel Hanrahan,</i> <i>Nir Krakauer, and Boris</i> <i>Shmagin</i>	21. Assessing Effects of Toxic Substances in the Great Lakes <i>Co-Chairs: Joe Tietge</i> <i>and Mark McMaster</i>	18. Recent Impacts of Invasive Species on the Great Lakes Ecosystem <i>Co-Chairs: Henry Vander-</i> <i>ploeg, Gary Fahnenstiel,</i> <i>and Craig Stow</i>
	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
9:20	<u>M. Jahnke</u> et al. Research and Restoration on Wisconsin Point Dune Plant Communities by Undergraduates at the University of Wisconsin- Superior	N.Y. Krakauer Seasonal Forecasting in the Great Lakes Region: Assessing Uncertainty	J.L. Newsted and J.P. Giesy Toxicological Perspectives of Perfluorooctane Sulfonate (PFOS) to Mink and Otters	E.S. Rutherford <i>et al.</i> Fish Recruitment Dynamics in the Newly Illuminated, Spatially Complex Food Web of Lake Michigan
9:40	J.B. Jacoby Art and Civic Engagement in Service to Water	<u>B. Shmagin</u> The Issue of Uncertainty for the River Watershed: Data Analysis of Scaled Space and Time Variability	<u>D.H. Miller</u> et al. Assessment of Population Status for a White Sucker (<i>Catostomus commersoni</i>) Population Exposed to Bleached Kraft Pulp Mill Effluent	P.E. Bourdeau <i>et al.</i> Non-consumptive Effects on Lesser-preferred Prey: Does <i>Bythotrephes</i> Affect Native Copepods?
10:00			W.W. Bowerman <i>et al.</i> How 50 Years of Bald Eagle Population Monitoring Helps Us Understand the Great Lakes	M.M. Hobmeier <i>et al.</i> Inland Spiny Water Flea (<i>Bythotrephes longimanus</i>) Dispersal and Impacts on Zooplankton Communities
10:20	BREAK			
10:40	Opening Ceremonies and Plenary, Lake Superior Ballroom			
12:20	ches, Harborside Ballroom)	our own (Pre-ordered box lun	Lunch on y	

	Horizon Room 202	Horizon Room 203	Horizon Room 204
	29. Paleoclimate Records of Large Lakes <i>Chair: Erik Brown</i>	39. Fish and Fisheries in Large Lakes <i>Chair: Timothy Johnson</i>	10. Exploring Food Web Linkages and Dynamics in the Upper Great Lakes: Past, Present, and Future Co-Chairs: Mohi Munawar, Thomas Nalepa, John Kelly, and Owen Gorman
	Presented by / Title	Presented by / Title	Presented by / Title
1:40	R.D. Ricketts et al. Late Quaternary Asian Climate: Peiku Co and Geophysical, Biogeochemical and Sedimentological Proxies	D. Goto <i>et al.</i> Elucidating Indirect Impacts of Seasonal Hypoxia Development on Fish Populations in Lake Erie Using a Spatially Explicit Individual-based Model	J.M. Van Der Werff et al. Nutrient Status of Phytoplankton in the Deep Chlorophyll Layer (DCL) of Lake Superior During the Summer of 2010
2:00	<u>M.L. Woltering</u> et al. Present Day Distribution of Crenarchaeota and Their Membrane Lipids in Large Lake Systems Providing New Insights into the Interpretation of TEX86 Temperature Records	J.E. Marsden <i>et al.</i> Changes in Egg Thiamine Concentrations in Lake Trout and Atlantic Salmon after Alewife Invasion of Lake Champlain	<u>G.L. House</u> et al. Phytoplankton Photosynthetic Efficiency in the Deep Chlorophyll Layer (DCL) of Lake Superior During the Summer of 2010
2:20	<u>A.N. Abbott</u> <i>et al.</i> Temperature and Aridity in Tropical East Africa Over the Past 600,000 Years: Reconstructions from the Lake Malawi Drill Core	<u>R.C. Préfontaine</u> et al. Detecting Change in Lake Huron Fish Communities Using Probability of Detection	<u>O.T. Gorman</u> <i>et al.</i> Diel Migration and Habitat Coupling in the Lake Superior Fish Community: Consequences for Ecosystem Health and Function
2:40	J.P. Werne et al. A Sedimentary Geochemical Record of Productivity and Nutrient Trends in Lake Superior	<u>M.T. Negus</u> and R.A. Bergstedt Rates of Intra-peritoneal Temperature Change in Lake Trout Implanted with Archival Tags	<u>M. Fitzpatrick et al.</u> Assessing the Lake Huron and Georgian Bay Lower Trophic Levels: Structure, Function and Linkages
3:00	J.L. Ash et al. Ostracode Trace Metal Geochemistry from Lake Tanganyika, Africa: The Application of HR-ICP- MS in Paleotemperature Analysis		<u>E.T. Howell</u> <i>et al.</i> Where Did All the Algae Come From: the Unexplained <i>Chara</i> Fouling on the SE Shores of Lake Huron
3:20	Break		

	French River Room	Horizon Room 205	Split Rock Room	Gooseberry Falls Room
	36. Large Lakes Science Solutions - Research Leading to Management Tools and Development of Policy <i>Co-Chairs: Eugene Braig IV</i> <i>and Cornelia Schlenk</i>	25. Web-based Tools for Managing Aquatic Resources in Great Lakes Co-Chairs: Norine Dobiesz and Clelia Luisa Marti	16. Linkages Between the Landscape and Great Lakes Coastal Ecosystems <i>Co-Chairs: Joel Hoffman,</i> <i>Peder Yurista, John Morrice,</i> <i>Jeff Schaeffer, and Paul</i> <i>Seelbach</i>	18. Recent Impacts of Invasive Species on the Great Lakes Ecosystem <i>Co-Chairs: Henry Vanderploeg,</i> <i>Gary Fahnenstiel,</i> <i>and Craig Stow</i>
	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
1:40	I. Lee et al. Lidar and Sub-meter Satellite Imagery for Lake Erie Shoreline Mapping	N.E. Dobiesz and R.E. Hecky A Web-based Tool to Aid Fisheries Management in the Great Lakes	G.J. Niemi The Influence of Landscapes on Great Lakes Coastal Ecosystems	T.G. Zorn and P.J. Schneeberger Walleye Movement and Sport Fishery Responses to Habitat Changes in Little Bay de Noc, Lake Michigan
2:00	K.A. Ali et al. Monitoring Cyanobacteria in the Western Basin of Lake Erie Using MERIS Satellite Data	M.C. Peppler and C.M. Rachol USGS Lake Management Plan Support: Web Mapping of Existing Lake Metadata	<u>G.E. Host et al.</u> A High-resolution, Scalable Index of Anthropogenic Stress for Great Lakes Watersheds	E.S. Dunlop and M.D. Rennie Changes in Depth Distribution of Lake Whitefish Coincident with the Dreissenid Invasion
2:20	M.H. Harke <i>et al.</i> Molecular Analysis of <i>Microcystis aeruginosa</i> : Dynamics of Toxic and Non-toxic Strains and Response to Phosphorus Limitation	<u>C.L. Marti</u> and J. Imberger Implementation of a Real-time Management System in the Swan Canning River Basin and its Receiving Waters (Western Australia, Australia)	L.B. Johnson <i>et al.</i> Quantifying Environmental Condition in Great Lakes Coastal Areas: A Multi-taxa Approach	<u>W.W. Fetzer et al.</u> Evaluating Relationships between Water Clarity Changes and Foraging by Yellow Perch and White Perch
2:40	D.E. Smith and M.R. Twiss Insight into the Seasonal Dynamics of Lake Erie: Nutrient and Phytoplankton Distribution in Lake Erie with a Focus on Winter	<u>C.N. Brooks</u> et al. The Lake Superior Water Monitoring and Information System: A Web Service with Real-time Wave Dynamics, Water Quality, and Meteorology Data	J.D. Allan <i>et al.</i> Project GLEAM: Mapping Individual Stressors Across the Great Lakes	K.M. DeVanna et al. Scale-dependent Effects of Soft-sediment <i>Dreissena</i> Druses on <i>Hexagenia</i>
3:00	R.M.L. McKay <i>et al.</i> Credible Data Collection in the Great Lakes by the US Coast Guard	<u>R.P. Axler</u> et al. Weather, Water, and People: Water Quality Data Animations to Protect Lake Superior Streams and Coastal Zones	P.B. McIntyre <i>et al.</i> Project GLEAM: Cumulative Mapping of Stressors Across the Great Lakes	D.R. Barton and E.T. Howell Is Benthic Algal Accumulation in SE Lake Huron Facilitated by <i>Dreissena</i> or Lack of Grazers?
3:20	Break			

	Horizon Room 202	Horizon Room 203	Horizon Room 204
	1. Physical Processes in Lakes Co-Chairs: Dmitry Beletsky, Chin Wu, and Cary Tro y	7. Molecular and Isotopic Insights into Biogeochemical Cycling of Organic Matter in Aquatic Systems Co-Chairs: Elizabeth Minor, Josef Werne, and Prosper Zigah	10. Exploring Food Web Linkages and Dynamics in the Upper Great Lakes: Past, Present, and Future Co-Chairs: Mohi Munawar, Thomas Nalepa, John Kelly, and Owen Gorman
	Presented by / Title	Presented by / Title	Presented by / Title
3:40	<u>D. Beletsky</u> et al. Interannual Variability of Circulation in Saginaw Bay	<u>E.Welsh</u> <i>et al.</i> The Effect of Photodegra- dation on Dissolved Organic Matter (DOM) in Amity Creek	D.B. Bunnell et al. Determining the Impact of <i>Bythotrephes</i> on the Lake Huron Zooplankton Community
4:00	<u>S. Ahmed</u> and C.D. Troy Analysis of Internal Poincare Wave Structure in Lake Michigan	H.Li and E.C. Minor Diagenetic Changes in Organic Matter in Lake Superior Sediments as Seen by FT-IR and 2D IR Correlation Spectroscopy	B.A. Turschak <i>et al.</i> Spatial and Seasonal Patterns in the Crustacean Zooplankton Community of the St. Marys River
4:20	<u>P.Thupaki</u> and M.S. Phanikumar Flow Reversals and Transport in the Nearshore Region of Lake Michigan: Observations and Numerical Modeling	P.K. Zigah et al. △14C of Biochemical Compound Classes in High Molecular Weight Dissolved Organic Carbon Isolated from Lake Superior	<u>E. Bright</u> <i>et al.</i> Diets of Angler-caught Predators in Lake Huron, 2009-2010
4:40	<u>E.J. Anderson</u> and D.J. Schwab Development of a Real-time Hydrodynamic Model of the Upper St. Lawrence River	E.C. Minor <i>et al.</i> Radiocarbon Evidence that Mesozooplankton Biomass in Lake Superior Incorporates Mainly Fresh Autochthonous Organic Matter	<u>S.R. Stein</u> <i>et al.</i> Distributions, Diets and Growth of Young Walleye in Saginaw Bay, Lake Huron
5:00	P.Verburg et al. Differential Cooling Drives Large-scale Convective Circulation in Lake Tanganyika		<u>C.M. Jovanovic et al.</u> Population Characteristics of a Recovering Walleye Population, <i>Sander vitreus</i> , in Saginaw Bay, Lake Huron
5:00	Poster Reception and Judgin	g, and Exhibitor Reception; Edi	mund Fitzgerald Hall
7:30	Student pizza cruise and mix	er; <i>Vista Star</i> cruise boat	

Gooseberry Falls	Split Rock Room	Horizon Room 205	French River Room	
18. Recent Impacts of Invasive Species on the Great Lakes Ecosystem <i>Co-Chairs: Henry Vanderploeg,</i> <i>Gary Fahnenstiel, and</i> <i>Craig Stow</i>	16. Linkages Between the Landscape and Great Lakes Coastal Ecosystems Co-Chairs: Joel Hoffman, Peder Yurista, John Morrice, Jeff Schaeffer, and Paul Seelbach	25. Web-based Tools for Managing Aquatic Resources in Great Lakes Co-Chairs: Norine Dobiesz and Clelia Luisa Marti	36. Large Lakes Science Solutions - Research Leading to Management Tools and Development of Policy <i>Co-Chairs: Eugene Braig IV</i> <i>and Cornelia Schlenk</i>	
 Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	
<u>Y. Kao</u> <i>et al.</i> Identifying Causal Links among Recent Changes in the Lake Huron Food Web	S.D.P. Smith <i>et al.</i> Project GLEAM: Quantifying Expert Opinion on the Relative Impact of Stressors in the Great Lakes	<u>C.A. LaLone</u> et al. Molecular Target Homology as a Basis for Species Extrapolation to Assess the Ecological Risk of Pharmaceuticals	P.J. Sullivan and L.G. Rudstam Accounting for Uncertainty in Acoustic Estimates in the Great Lakes	3:40
<u>C.A. Stow</u> et al. Dreissenid Mussel Influences on Phosphorus Export from Saginaw Bay to Lake Huron	T.P. Hollenhorst and M. Hudson Modeling Peak Discharge within the Marengo River Watershed — Developing Priorities for Restoration	D.A. Hart and S.J. Ventura The Wisconsin Coastal Atlas: Building the Coastal Spatial Data Infrastructure to Promote Sustainable Management of the Great Lakes	<u>R.J. Snyder</u> and T.B. Duval Evaluating Indicators of Condition in Freshwater Alewives	4:00
S.A. Bocaniov et al. Can we Model the Impact of Invasive Dreissenid Mussels on Large Lake Ecosystems? A Study of Lakes Erie and Simcoe	J.A. Morrice <i>et al.</i> Hydrologic Factors Deter- mining Linkages of Great Lakes Coastal Wetlands to Watershed and Lake		L. Pierce et al. A Rapid Genetic Test for the VHS Fish Virus and Viral Load from Laboratory Challenge Experiments	4:20
<u>H. Zhang</u> et al. Potential Impacts of Asian Carps on the Food Web and Fisheries in a Lake Michigan Estuary	E.M. Ruzycki <i>et al.</i> Sediment, Phosphorus and Mercury Loads from Four Western Lake Superior Watersheds			4:40
				5:00
· · · · · · · · · · · · · · · · · · ·	Poster Reception and J	udging, and Exhibitor Recepti	on; Edmund Fitzgerald Hall	5:00

Student pizza cruise and mixer; *Vista Star* cruise boat **7:30**

	Horizon Room 202	Horizon Room 203	Horizon Room 204
	1. Physical Processes in Lakes Co-Chairs: Dmitry Beletsky, Chin Wu, and Cary Troy	14. Coastal Wetlands of North American Great Lakes Co-Chairs: Gordon Golds- borough and Dale Wrubleski	23. Microbial Issues in Great Lakes <i>Chair: Randall Hicks</i>
	Presented by / Title	Presented by / Title	Presented by / Title
8:00	J.S. Doucette <i>et al.</i> Development of a Cohesive Shoreline Recession Model to Determine the Effects of Water Level Fluctuations in the Upper Great Lakes	G.P. Grabas and D.B. Rokitnicki-Wojcik The Condition of Coastal Wetlands in the Lower Great Lakes: Coastal Habitat Assessment and Monitoring Project	D.W. Bowman <i>et al.</i> Accelerated Corrosion in the Duluth-Superior Harbor
8:20	<u>K.A. McLean</u> <i>et al.</i> Erodibility and Transport Behavior of Dreissenid Mussel Deposits in the Nearshore Zone	W.C. Webster and D.G. Uzarski Impacts of Great Lakes Water Level Fluctuations and Anthropogenic Disturbance on the Macrophyte Flora of Coastal Wetlands	J.R. Bostrom et al. Microbiological and Chemical Aspects of Corrosion of Steel in the Duluth-Superior Harbor
8:40	<u>V. Bennington</u> et al. Spatial Heterogeneity in Lake Superior Carbon Biogeochemistry	N.P. Danz Linkages Between Vegetation and Anthropogenic Stress in Tributary Mouth Wetlands of the St. Louis River Estuary	<u>R.J. Oster</u> and R.E. Hicks Using Chemical and Microbiological Factors to Assess the Risk of Accelerated Corrosion in the Duluth-Superior Harbor
9:00	T.M. Redder <i>et al.</i> Calibration and Application of a Fine-scale Model to Evaluate Sediment Dynamics in Toledo Harbor and the Western Basin of Lake Erie	C.A. Johnston Water Chemistry Finger- prints of Coastal Emergent Plant Communities	S.K. Haack <i>et al.</i> Occurrence and Variability of Bacterial Pathogen Genes at Twelve Represen- tative Great Lakes Beaches
9:20	Break		

	French River Room	Horizon Room 205	Split Rock Room	Gooseberry Falls
	36. Large Lakes Science Solutions - Research Leading to Management Tools and Development of Policy Co-Chairs: Eugene Braig IV and Cornelia Schlenk	24. Remote Sensing, Visualization, and Spatial Data Applications for the Great Lakes Co-Chairs: George Leshkevich and Robert Shuchman	16. Linkages Between the Landscape and Great Lakes Coastal Ecosystems Co-Chairs: Joel Hoffman, Peder Yurista, John Morrice, Jeff Schaeffer, and Paul Seelbach	22. Nutrients, Eutrophication, Hypoxia, and Harmful Algal Blooms Co-Chairs: Mark Rowe, James Pauer, and David Miller
	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
8:00		C.E. Binding et al. An Analysis of MODIS-derived Algal and Mineral Turbidity in the Optically Complex Waters of Lake Erie	M.J. Wiley The Simplification of Complex River Mouth Channel Systems: What do we Know and What do we Wish we Knew?	D.M. Dolan <i>et al.</i> Updating Great Lakes Total Phosphorus Loadings
8:20	D.J. Sass Hilbrich <i>et al.</i> Review of the State of the Great Lakes Ecosystem Conference (SOLEC) Suite of Great Lakes Indicators	C.B. Mouw et al. Evaluation and Optimization of Bio-optical Inversion Algorithms for Remote Sensing of Lake Superior's Optical and Biogeochemical Properties	<u>Y.Bhagat</u> and C.R. Ruetz III Determinants of Fish Community Assemblages in Drowned River Mouth Systems of Lake Michigan	S.C. Chapra and D. M. Dolan Great Lakes Total Phosphorus Model: Post-audit
8:40	<u>G.Walker</u> et al. Water Conservation and Pricing in Canadian Great Lakes Municipalities (Municipal Water and Wastewater Survey Data)	R.A. Shuchman et al. Satellite Based Retrievals of Chlorophyll, Dissolved Organic Carbon and Suspended Minerals for each of the Great Lakes	J.C. Hoffman et al. Forging the Link: Using a Conservative Mixing Framework to Characterize Connections between Rivers and Great Lakes in Transition Zones	A.M. Anstead <i>et al.</i> Phosphorus Loading Trends in Lake Michigan: A Historic Surprise
9:00	M.C. Carambas Assessing the Economic Value of Investing in Great Lakes Protection: Implications for Environ- mental Policy and Management Decisions	A.D. Gerace and J.R. Schott Demonstrating Landsat's New Potential to Monitor Case 2 Waters	D.B. Baker <i>et al.</i> . A Comparison of Mixing Zones between Storm and Base Flows for Major Ions and Dissolved and Particulate Nutrients: A Case Study in the Western Basin of Lake Erie	H.S. Schmitt Marquez et al. Chloride and Total Phosphorus Interlake Load Estimates in the Upper Great Lakes System, 1994-2008
9:20	Break		·	

	Horizon Room 202	Horizon Room 203	Horizon Room 204
	1. Physical Processes in Lakes Co-Chairs: Dmitry Beletsky, Chin Wu, and Cary Troy	14. Coastal Wetlands of North American Great Lakes Co-Chairs: Gordon Golds- borough and Dale Wrubleski	23. Microbial Issues in Great Lakes Chair: Randall Hicks
	Presented by / Title	Presented by / Title	Presented by / Title
9:40	N.F. Manning et al. Use of Individual Based Models to Explore the Effects of Turbidity on Early Life History Traits of Yellow Perch <i>(Perca flavescens)</i>	J.J. Sherman et al. What Defines a Refuge for Unionids from Dreissenid Mussels (<i>Dreissena poly-</i> <i>morpha and D. bugensis</i>) in Great Lakes Coastal Wetlands?	J.J. Eichmiller et al. Short Term Frequency and Distribution of Fecal Bacteria Sources and Virulence Genes at Lake Superior Beaches
10:00	<u>B.L. Potter</u> <i>et al.</i> Seasonal and Interannual Variability in the Summer- time Energy Balance of a Thermokarst Lake on the Arctic Coastal Plain of Northern Alaska	K.P. Kowalski et al. Coastal Wetland Ecosystem Rehabilitation Through Hydrologic Reconnection: Diked Wetlands in Western Lake Erie	<u>J.B. Welch</u> <i>et al.</i> Molecular Analysis of Bacterial Communities in Ship Ballast Water and the Duluth-Superior Harbor
10:20	<u>S.MacIntyre</u> et al. Comparative Mixing Dynamics in Arctic Lakes of Diverse Sizes	L.G. Goldsborough <i>et al.</i> Carp and Culverts: Preparing to Restore Delta Marsh, One of the Largest Coastal Wetlands in North America	<u>N.L. Belkova</u> et al. Viable but Unculturable Bacteria from Lake Baikal: New Results on Cultivation
10:40	E.S. Troitskaya et al. Upwellings in the Nearshore and Offshore Areas of Lake Baikal	D.A. Wrubleski et al. Restoration of Delta Marsh, Manitoba: Exclusion of Common Carp	N.A. Dsouza et al. Detection of Ice Nucleating Active Components in a Winter Phytoplankton Assemblage in Lake Erie
11:10	Plenary, Lake Superior Ballr	oom	
12:20	IAGLR Business Lunch, Lake	Superior Ballroom	

Gooseberry Falls	Split Rock Room	Horizon Room 205	French River Room	
22. Nutrients, Eutrophica- tion, Hypoxia, and Harmful Algal Blooms <i>Co-Chairs: Mark Rowe,</i> <i>James Pauer, and David</i> <i>Miller</i>	16. Linkages Between the Landscape and Great Lakes Coastal Ecosystems Co-Chairs: Joel Hoffman, Peder Yurista, John Morrice, Jeff Schaeffer, and Paul Seelbach	24. Remote Sensing, Visualization, and Spatial Data Applications for the Great Lakes Co-Chairs: George Leshkevich and Robert Shuchman	36. Large Lakes Science Solutions - Research Leading to Management Tools and Development of Policy Co-Chairs: Eugene Braig IV and Cornelia Schlenk	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	1
R.P. Richards Recent Trends in N and P in the Maumee and Sandusky Rivers, Lake Erie Tributaries	D.K. Dila and B.A. Biddanda Microbes and Carbon Flux in a Great Lakes Watershed	S.V. Nghiem and <u>G. Leshkevich</u> Advancing a Satellite Synthetic Aperture Radar (SAR) Ice Classification Algorithm	<u>C. Masson</u> et al. Human Dimensions of Large Lake Resources Management: Research Agenda	9:40
D.M. Robertson and D.A. Saad Allocation of Nutrient Inputs to the Great Lakes by Source and River Basin Using SPARROW Watershed Models	M.L. Carlson-Mazur et al. Science for Effective Restoration of Rivermouth Ecosystems: Controls on Biophysical Structure and Food-web Processes	C.N. Brooks et al. Mapping and Monitoring of Invasive Phragmites in the Coastal Great Lakes using Radar Imagery	<u>G.B.Wilson</u> and R.T. Heath Ecosystem-based Manage- ment of the Lake Erie Ecosystem: A Survey-based Approach to Assessment of Management Needs	10:00
<u>M.M. Ballard</u> et al. Forecasting Future Phosphorus Loading in the Great Lakes Region from Changing Land-derived Nutrient Inputs	J.R. Kelly and P.M. Yurista An Integrated Set of Observations to Link Conditions of Great Lakes Nearshore Waters to Their Coastal Watersheds	R. Shuchman et al. Mapping <i>Cladophora</i> in the Great Lakes Using Multi-scale Satellite Imagery	<u>V.B. Serveiss</u> et al. The International Joint Commission 15th Biennial Report on Water Quality	10:20
<u>N.A. Bosch</u> and J.D. Allen Using SWAT to Evaluate the Impact of Nutient Source Reduction and Agricultural BMP Implementation on Riverine Loads to Lake Erie	P.M. Yurista <i>et al.</i> Lake Michigan Green Bay: Nearshore Variability	C.N. Brooks et al. Assessing Impacts from Historical Copper Mining Stamps Sands in the Keweenaw Peninsula through Analysis of LiDAR and Multi- spectral Imagery from the CHARTS System		10:40
		Plenar	y, Lake Superior Ballroom	11:10
		IAGLR Business Lunc	h, Lake Superior Ballroom	12:20

	Horizon Room 202	Horizon Room 203	Horizon Room 204
	3. Climate Variability in Large Lakes Mediated by Continental-to-Global Scale Forcing Co-Chairs: Brent Lofgren and Jia Wang	11. Gobies in the Great Lakes and Their Watersheds Co-Chairs: Chris Pennuto and Lynda Corkum	10. Exploring Food Web Linkages and Dynamics in the Upper Great Lakes: Past, Present, and Future Co-Chairs: Mohi Munawar, Thomas Nalepa, John Kelly, and Owen Gorman
	Presented by / Title	Presented by / Title	Presented by / Title
1:40	<u>I.P. Panyushkina</u> and S.W. Leavitt Dieback Patterns of Ancient Spruce in the Great Lakes Region between ca. 14,000 and 10,000 cal yr BP	T.B. Campbell and S.D. Tiegs Using Reach-scale Variables to Predict the Abundance of the Round Goby (<i>Neogobius melanostomus</i>) in Great Lakes Tributaries	<u>C.R. Roswell</u> <i>et al.</i> Do Sub-optimal Foraging Strategies Reduce Recruit- ment of Yellow Perch in Saginaw Bay?
2:00	J.J. Magnuson <i>et al.</i> Extreme Events, Trends and Variability in North- ern Hemisphere Lake Ice Phenology (1855-2005)	J.H.G. Nett et al. A Comparison of Sampling Methods for Detecting Round Gobies (<i>Neogobius melanostomus</i>) in Streams	S.J. Lozano The Status of the Benthic Community in Lake Ontario from 2004 to 2008
2:20	<u>S. Sharma</u> et al. Temporal Dynamics in Lake-ice Breakup Dates Around the Northern Hemisphere from 1903 to 2003	C.E. Janik <i>et al.</i> Round Gobies Disrupt Primary Production Dynamics in Lotic Systems	L.G. Rudstam <i>et al.</i> Lake Ontario Food Web Disruption — Comparisons with the Upper Lakes
2:40	C.M. O'Reilly et al. Interacting Effects of Climate Change and El Niño on Recent Warming Patterns in Lake Tan- ganyika, East Africa	K.A. Cudney et al. The Effects of the Invasive Round Goby (<i>Neogobius</i> <i>melanostomus</i>) on Organic Matter Processing: A Mesocosm and Field Test	<u>M. Munawar</u> et al. Microbial — Planktonic Food Webs of the Great Lakes: Comparing Stressed vs. Unstressed Ecosystems
3:00	<u>X.Bai</u> et al. Severe Ice Conditions in the Bohai Sea, China and Mild Ice Conditions in the Great Lakes during the 2009/2010 Winter	<u>M. Poos</u> <i>et al.</i> Evaluating the Winners and the Losers of Round Goby Invasion into Great Lakes Tributaries	<u>M.B. Edlund</u> et al. Historical Perspectives on the <i>Diporeia</i> Demise: Paleolimnological and Gut Content Evidence of Food Limitation
3:20	Break		

	French River Room	Horizon Room 205	Split Rock Room	Gooseberry Falls	
	31. Coordinated Nearshore Monitoring and Research in Lake Michigan <i>Chair: Glenn Warren</i>	24. Remote Sensing, Visualization, and Spatial Data Applications for the Great Lakes Co-Chairs: George Leshkevich and Robert Shuchman	16. Linkages Between the Landscape and Great Lakes Coastal Ecosystems Co-Chairs: Joel Hoffman, Peder Yurista, John Morrice, Jeff Schaeffer, and Paul Seelbach	22. Nutrients, Eutrophica- tion, Hypoxia, and Harmful Algal Blooms Co-Chairs: Mark Rowe, James Pauer, and David Miller	
	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	
1:40	L.R. Fogarty <i>et al.</i> A Conceptual Model for Lake Michigan Nearshore Ecosystem and Relevance to Lake Michigan LaMP Goals	D.M. O'Donnell et al. Optical Characterizations and Pursuit of Closure Across the Gradients of Green Bay and Near-shore Lake Michigan	K.M. Chomicki et al. Land Use, River Influences, and Water Quality at Contrasting Sites Along Nearshore Regions of the Great Lakes	M.J. Maccoux <i>et al.</i> Chloride and Total Phosphorus Loadings (1994-2008) and a Mass Balance Model for Green Bay and Lake Michigan	
2:00	G.W. Kohlhepp Lake Michigan Tributary and Nearshore Water Quality Monitoring in Michigan	M. Sayers et al. Estimation of Absorption and Backscatter Values from <i>in Situ</i> Radiometric Water Measurements	J.J. Ciborowski et al. Zoobenthic Bioindicators of Environmental Condition at Great Lakes Coastal Areas: A Comparison of Methods	L. Leon et al. Watershed and Lake Water Quality Modeling in Lake Winnipeg	
2:20	<u>P.R. Jackson</u> and K.D. Richards Synoptic Water Quality and Velocity Survey of Milwaukee Harbor and its Three Tributaries using a Manned Boat and Autonomous Underwater Vehicle	<u>M.G. Allan</u> et al. Atmospheric Correction of Landsat 7 Thermal Imagery for Lake Water Temperature Retrieval and Validation of a Three Dimensional Hydro- dynamic Model	<u>C.E. Scott</u> and H. Cyr Wind Driven Disturbance Impacts Benthic Primary Production	D.D. Kane <i>et al.</i> Re-eutrophication of Lake Erie: Multiple Contributions by Two Agricultural Tributaries	
2:40	<u>S.R. Greb</u> et al. Continuous <i>in Situ</i> Monitoring of the Nearshore Area off Kewaunee, WI	B.J. Huberty Overview of Remote Sensing Applications and Needs for the Great Lakes	<u>M.S. Riedel</u> <i>et al.</i> Dam Removal for Restoration of Potamodromous Habitat Restoration in Michigan	J.D. Chaffin <i>et al.</i> Seasonal Nitrogen Limitation in Western Lake Erie	
3:00	G.J. Warren and J.C. May Identifying Features in the Nearshore Waters of Lake Michigan using Towed Sensor Data	G. Leshkevich and L. Songzhi New Great Lakes Coast- Watch Decision Support Tools	C.M. Brousseau et al. Examining Jov si a Tih— Han at Lockoges at Different Spatial Scales	<u>D.L. Bade</u> <i>et al.</i> Biological Phosphorus Uptake in Lake Erie's Tributaries and Offshore Sites	
3:20	Break				

	Horizon Room 202	Horizon Room 203	Horizon Room 204
	3. Climate Variability in Large Lakes Mediated by Continental-to-Global Scale Forcing Co-Chairs: Brent Lofgren and Jia Wang	11. Gobies in the Great Lakes and Their Watersheds Co-Chairs: Chris Pennuto and Lynda Corkum	10. Exploring Food Web Linkages and Dynamics in the Upper Great Lakes: Past, Present, and Future Co-Chairs: Mohi Munawar, Thomas Nalepa, John Kelly, and Owen Gorman
	Presented by / Title	Presented by / Title	Presented by / Title
3:40	<u>T.K. Bayer</u> et al. Effects of Climate Change on Large, Oligotrophic Lakes in New Zealand	<u>G.M. Andraso</u> and M.T. Ganger Factors Influencing Size-selective Predation by Round Gobies (<i>Neogobius</i> <i>melanostomus</i>) on Dreissenid Mussels	S.J. Czesny et al. Does a Spatiotemporally Variable Prey Base in the Great Lakes affect Lake Trout Egg Fatty Acid Signatures?
4:00	<u>M.C. Colton</u> GLERL's Great Lakes Climate Change Program	K.N. Baker Shallow-water Abundances of Round Gobies (<i>Neogobius melanostomus</i>) within the Western Basin of Lake Erie, 1996-2010	<u>M.E. Sierszen</u> <i>et al.</i> Stable Isotope Tracers of Process in Great Lakes Food Webs
4:20	B.M. Lofgren and M. Perroud Future Regional Climate Scenarios and the Importance of Ice	<u>C.M. Pennuto</u> et al. Round Goby Size and Abundance Correlates with Habitat in Nearshore Lake Ontario, NY	<u>M.W. Rogers</u> et al. Modeling Lake Michigan's Offshore Food Web
4:40	J. Wang and X. Bai Great Lakes Climate and Ice Research: Diagnosis and Modeling	A.F. Mensinger and M.P. Lynch Site Fidelity and Movement of the Round Goby in the Duluth- Superior Harbor	<u>C. Chu</u> et al. Ecological Modeling and Management: Insights from Lake Ontario
5:00	<u>A. Fujisaki</u> et al. Comparison of Ice-ocean Models for Lake Erie	L.D. Corkum et al. Round Goby Nest Preference and Egg Odor Attraction	<u>T.A. Clement</u> <i>et al.</i> Size Structure of Small Lake Fish Assemblages: The Role of Lake Size, Biodiversity, and Disturbance
6:00	Mixer and Banquet, Lake Su	perior Ballroom	

	French River Room	Horizon Room 205	Split Rock Room	Gooseberry Falls
	31. Coordinated Nearshore Monitoring and Research in Lake Michigan <i>Chair: Glenn Warren</i>	8. Genetics, Genomics and Metagenomics in Great Lakes Microbial Communities Co-Chairs: Xiaozhen Mou and Robert Heath	35. Great Lakes Adaptive Management and Climate Change Co-Chairs: Linda Mortsch, Wendy Leger, Scudder Mackey, and Jennifer Read	22. Nutrients, Eutrophica- tion, Hypoxia, and Harmful Algal Blooms <i>Co-Chairs: Mark Rowe,</i> <i>James Pauer, and David</i> <i>Miller</i>
	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
3:40	J.R. Morris USGS Beach-health Investigations Throughout the Great Lakes	O.A. Kutovaya et al. Expression of Phosphorus Assimilation Genes in Endemic <i>Synechococcus</i> of the Laurentian Great Lakes	J. Read et al. Developing an Adaptive Management Approach for Managing the Risks Associated with Great Lakes Water Level Changes due to Climate Change	M.D. Rowe et al. Modeling the Response of Nutrient Concentrations and Primary Productivity in Lake Michigan to Nutrient Loading Scenarios
4:00	<u>S. Riley</u> et al. Botulism Type E Toxin in Northern Lake Michigan	<u>R. Edgar</u> et al. Metagenomic Analysis of the Mid-winter Algal Bloom in Lake Erie	A.G. Douglas Development of Water Level Sensitivity Zones for the Recreational Boating Sector	E.M. Verhamme <i>et al.</i> Application of a Fine-scale Ecosystem Model to Saginaw Bay, Lake Huron
4:20	<u>E.H. Tyner</u> et al. Investigating Botulism Mechanisms in the Lake Michigan Nearshore: Food Web Structure and Oxygen Dynamics	X. Mou <i>et al.</i> Metagenomes of Microcystin- degrading Bacteria in Lake Erie	D. Nelson <i>et al.</i> Great Lakes Climate Needs Assessment: A Survey of Coastal Community Decision-maker Knowledge, Skill, Interest, and Attitudes about Climate	G.B. Arhonditsis <i>et al.</i> Eutrophication Risk Assessment using Bayesian Inference Techniques
4:40	S.I. Apfelbaum Multi-spectral Aerial Imagery for Near Shore Land Use	<u>X. Lu et al.</u> Denitrification is More Important than Anammox in Microbially-mediated N Removal in Lake Erie	J. Day et al. Climate Ready Great Lakes	<u>R.L. North</u> <i>et al.</i> Phosphorus Bioavailability to Phytoplankton in Lake Simcoe
5:00	<u>J. Read</u> <i>et al.</i> Developing a Modeling Framework for Ecosystem Forecasting: The Lake Michigan Pilot	<u>M. Mukherjee</u> et al. Identification and Enumera- tion of Lake Superior Nitrifying Archaea by Fluorescence <i>in Situ</i> Hybridization	D. Scavia et al. GLISA: The Great Lakes Integrated Sciences and Assessments Center	B.K. Ginn and M. Dennis Distribution 2r. 1 Sea Chal Var a in of ec in en Ibaghorus in Lake Simcoe and the Holland River
6:00	et, Lake Superior Ballroom	Mixer and Banque		

	Horizon Room 202	Horizon Room 203	Horizon Room 204
	3. Climate Variability in Large Lakes Mediated by Continental-to-Global Scale Forcing Co-Chairs: Brent Lofgren and Jia Wang	13. History, Ecology, and Management of Aquatic Communities in Great Lakes Connecting Channels Chair: Edward Roseman	19. Great Lakes and Global Invasions Co-Chairs: Alexander Karatayev and Lyubov Burlakova
	Presented by / Title	Presented by / Title	Presented by / Title
8:00	J.L. Hanrahan et al. Identification of Multi- decadal Variability in the Outflow-removed Water Levels of Lake Michigan— Huron	J. Schaeffer et al. Long-term Trends in the Saint Marys River Open-water Fish Community	B. Cudmore Pathway History of Non- native Fish Introductions in the Great Lakes
8:20	<u>H. Liu</u> and J.S. Famiglietti Simulating Lake Level Variations using a Catch- ment-based Land Surface Model and Global Scale Forcing Data	<u>R. Ellison</u> et al. "How the HEC did we get Here?" and Other Questions: Governance Options for Great Lakes Connecting Waterways	<u>T.B. Johnson</u> <i>et al.</i> Asian Carp in the Great Lakes: Growth Rate Potential Under Different Prey Regimes
8:40	<u>K.Van Cleave</u> et al. Interactions among Lake Superior Ice Cover, Evaporation, and Water Temperature: A Re-exami- nation of the Standard Paradigm	<u>D.W. Hondorp</u> et al. The Ecological Basis for Fish Habitat Restoration in the Huron—Erie Corridor	<u>P.M. Kocovsky</u> and D. Chapman Suitability of the Maumee River for Spawning of Silver and Bighead Carp
9:00	V. Mishra and <u>K.A. Cherkauer</u> Large-scale Climate Variability: Implications to Small Lakes in the Great Lakes Region	D.H. Bennion <i>et al.</i> GIS Based Spatial Modeling for Remediation of Fish Spawning Habitat in the Connecting Channels of the Huron—Erie Corridor	L.A. Criger An Overview of Recent Advances in the Integrated Management Program for Controlling Sea Lampreys in the Great Lakes
9:20	Break		

	French River Room	Horizon Room 205	Split Rock Room	Gooseberry Falls
	30. Making a Great Lake Superior: Past, Present and Future <i>Co-Chairs: Pamela</i> <i>Finlayson, Nancy Stadler-</i> <i>Salt, and Elizabeth LaPlante</i>	27. Great Lakes Observation Networks <i>Co-Chairs: Nate Booth</i> <i>and Jennifer Read</i>	37. Science to Management in the St. Louis River Area of Concern <i>Co-Chairs: Patrick Collins</i> <i>and Brent Bellinger</i>	22. Nutrients, Eutrophica- tion, Hypoxia, and Harmful Algal Blooms <i>Co-Chairs: Mark Rowe,</i> <i>James Pauer, and</i> <i>David Miller</i>
	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
8:00	E.V. LaPlante et al. Making a Great Lake Superior: 20 Years of the Lake Superior Binational Program	T. Dekker et al. Designing the Enterprise Architecture of the Great Lakes Observing System		D.K. Rucinski et al. A 3-dimensional Advanced Aquatic Ecosystem Model for Lake Erie
8:20	A.R. Kireta <i>et al.</i> Lake Superior Ecological History and Current Trajectory as Told by Diatoms	D.L. Blodgett et al. USGS Center for Integrated Data Analytics — Great Lakes Restoration Initiative Data Network	B.J. Little <i>et al.</i> Accelerated Corrosion in Duluth-Superior Harbor	<u>C.J. Winslow</u> et al. Hypoxia in the Western Basin of Lake Erie: Low Oxygen in a Shallow System
8:40	A. Dove Water Quality Statue and Trep 1 (a) (at fir, al e S pero to the Great Lakes Surveillance Program	E.F. Bugliosi and <u>N. Granneman</u> U. S. Geological Survey Integrated Tributary Monitor- ing to Support Great Lakes Restoration Efforts	<u>G.R. Clark</u> et al. Duluth-Superior Harbor Beneficial Use of Dredged Material Efforts at Erie Pier	T.J. Valenta <i>et al.</i> Oxygen Depletion in Lower Green Bay
9:00	<u>C. Lohse-Hanson</u> et al. Lake Superior Zero Discharge Demonstration 2010 Critical Chemical Milestones	<u>S. Ruberg</u> <i>et al.</i> Recent Developments in Real-time Environmental Sensing	L.L. Rozumalski et al. Fond du Lac Creek Restoration to Enhance Fish Habitat and Passage in the St. Louis River Watershed AOC	J.V. Klump et al. Observations of Hypoxia and Linkages to Climatic Changes in Biogeochemical Cycles in Green Bay, Lake Michigan
9:20	Break			

	Horizon Room 202	Horizon Room 203	Horizon Room 204
	5. Assessing Dynamics of the Great Lakes Water Budget Co-Chairs: Howard Reeves and Andrew Gronewold	13. History, Ecology, and Management of Aquatic Communities in Great Lakes Connecting Channels Chair: Edward Roseman	19. Great Lakes and Global Invasions Co-Chairs: Alexander Karatayev and Lyubov Burlakova
	Presented by / Title	Presented by / Title	Presented by / Title
9:40	<u>D. Deacu</u> et al. Effect of Improving the Consistency of the Atmospheric Forcing in a Hydrometeorological Model of the Great Lakes Basin	G.W. Kennedy et al. Adaptation of Two Techniques for Sampling Fish Eggs and Larvae in Deep Rivers	<u>T.J. Cline</u> <i>et al.</i> Sea Lamprey in Lake Superior: Responses to Increased Host Abundance and Climate Change
10:00	P.D. Blanken <i>et al.</i> Direct Measurements of the Surface Energy Balance on Lake Superior	J.M. Craig et al. Factors Affecting the Distribution and Species Composition of Spawning by Several Fish Species in the Detroit and St. Clair Rivers	<u>A. Lochet</u> <i>et al.</i> Can Statolith Micro- chemistry be used to Track Natal Origin of Parasitic Sea Lamprey?
10:20	<u>A.D. Gronewold</u> and T. Hunter Novel Models for Quantifying Spatial Variability in Daily Precipitation Estimates	E.F. Roseman <i>et al.</i> Using Ichthyoplankton Surveys to Assess Fish Spawning and Nursery Habitats in the Huron- Erie Corridor	J.L. Sieracki and J.M. Bossenbroek Modeling the Spread of Viral Hemorrhagic Septicemia Virus (VHSV) by Within - Great Lakes Shipping
10:40	H.W. Reeves et al. Is There One Right Answer? Why a Single Estimate may Not be the Best	<u>A.S. McNaught</u> <i>et al.</i> Habitat Use by Larval Fish in the Detroit and St. Clair Rivers	L.G. Rudstam et al. Hemimysis anomala - A New Predator in the Nearshore of Lake Ontario
11:10	Plenary, Lake Superior Ballro	oom	· · · · · · · · · · · · · · · · · · ·
12:20	Lunch on your own		

Gooseberry Falls	Split Rock Room	Horizon Room 205	French River Room	
22. Nutrients, Eutrophica- tion, Hypoxia, and Harmful Algal Blooms <i>Co-Chairs: Mark Rowe,</i> <i>James Pauer, and David</i> <i>Miller</i>	37. Science to Manage- ment in the St. Louis River Area of Concern <i>Co-Chairs: Patrick Collins</i> <i>and Brent Bellinger</i>	27. Great Lakes Observation Networks <i>Co-Chairs: Nate Booth</i> <i>and Jennifer Read</i>	30. Making a Great Lake Superior: Past, Present and Future <i>Co-Chairs: Pamela</i> <i>Finlayson, Nancy Stadler-</i> <i>Salt, and Elizabeth LaPlante</i>	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	
M.M. Hernandez et al. Growth Pesperie et al. Cha a to Propheries and Narogen Enrichment	T.D. Ledder et al. Progress on Delisting the St Louis River AOC through Hog Island Remediation to Restoration	S.T. Kendall et al. A New Moored Buoy Observatory in the Muskegon Lake AOC (Muskegon, MI)	S.K. Moses and M. Hudson Current Levels and Temporal Trends of Legacy Contaminants and Emerging Chemicals of Concern in the Lake Superior Ecosystem	9:40
<u>A.E. Poste</u> <i>et al.</i> Physicochemical Drivers of Microcystin Production in Several East African Lakes	<u>C. Ostern</u> and P. Hlina Remediation-to-Restoration ("R2R") at Hog Island, St. Louis River Area of Concern, Lake Superior - A Success Story and Model	G.L. Boyer <i>et al.</i> Blue-Green Algae are not Green Algae - Calibration and Application of <i>in Situ</i> Sensors for Cyanobacteria	D.V.C. Weseloh <i>et al.</i> Spatial and Temporal Patterns of Contaminants in Herring Gull Eggs from Lake Superior, 1974-2009	10:00
T.V. McDaniel et al. Approaches to Environ- mental Morit or ng in L ke of he Wroce while Water and Sediment Quality to the Benthic Community	J. Silbernagel et al. Spatial Narratives of the St. Louis River Estuary: Connecting Science to Spatial Literacy and Stewardship	<u>C.G. Lochner</u> et al. Assessing the Analytical Capabilities of Real fit w U trace expects practicy for Organic Contaminants in the Niagara River	<u>C. Lohse-Hanson</u> et al. Open Burning Abatement in the Minnesota Portion of the Lake Superior Basin	10:20
<u>R.R. Rediske</u> et al. The Influence of Environ- mental Conditions and Hydrologic Connectivity on Cyanobacteria Assemblages				10:40
		Plena	nry, Lake Superior Ballroom	11:10
			Lunch on your own	12:20

	Horizon Room 202	Horizon Room 203	Horizon Room 204
	5. Assessing Dynamics of the Great Lakes Water Budget <i>Co-Chairs: Howard Reeves</i> <i>and Andrew Gronewold</i>	13. History, Ecology, and Management of Aquatic Communities in Great Lakes Connecting Channels Chair: Edward Roseman	19. Great Lakes and Global Invasions Co-Chairs: Alexander Karatayev and Lyubov Burlakova
	Presented by / Title	Presented by / Title	Presented by / Title
1:40	<u>R. Gyawali</u> and D.W. Watkins Two Hydrologic Modeling Approaches for the Great Lakes Watersheds: A Case Study of the Kalamazoo River Basin	J. Chiotti et al. Comparing Fish Communities among Different Wetland Types within the Huron— Erie River Corridor	A. Perez-Fuentetaja and J. Wuerstle Feeding Preferences of a New Great Lakes Invader, <i>Hemimysis anomala</i> , the Bloody Red Shrimp
2:00	T.S. Hunter and A.D. Gronewold Variability and Uncertainty in Great Lakes Runoff Estimates	B.A. Manny et al. Fish Response to Construction of Fish Spawning Habitat in the Detroit River	<u>M.C. TenEyck</u> and D.K. Branstrator Testing Relationships Between Propagule Pressure and Establishment Success of a Non-native Species, Daphnia magna
2:20	Y.Fan et al. Basin Supplies, Channel Capacities and Lake Superior Regulation Effects	<u>M. Granados</u> et al. Synthesizing Reference Conditions for Highly Disturbed Sites though Best Professional Judgment	D.T. Zanatta and M.T. Rowe Twenty-five Years of Change in the Bivalve Communities of Lake St. Clair
2:40	J.K. Bruxer <i>et al.</i> Uncertainty in Lake Erie Net Basin Supplies	<u>C.A. Stepien</u> et al. Assessing Genetic Connectivity and Divergence Patterns of Walleye and Yellow Perch along the Huron— Erie Corridor	L.E. Burlakova <i>et al.</i> <i>Dreissena</i> Impacts on Unionidae: General Trends in North America and Europe
3:00	F.H. Quinn Development of Great Lakes Water Supplies, 1860-1899	<u>A. Horne</u> et al. Lake Sturgeon Movements Associated with Spawning in a Deepwater Great Lakes Connecting Channel	<u>V.A. Karatayev</u> et al. Lakewide Dominance Does Not Predict the Invader Species for Dreissenids
3:20	Break		· · · · · ·

l	French River Room	Horizon Room 205	Split Rock Room	Gooseberry Falls
	30. Making a Great Lake Superior: Past, Present and Future <i>Co-Chairs: Pamela Finlayson,</i> <i>Nancy Stadler-Salt, and</i> <i>Elizabeth LaPlante</i>	15. Ecosystem Effects of Changing Water Level Regimes <i>Chair: Scudder Mackey</i>	32. Education and Outreach: Applying Science to Problem Solving Chair: Rochelle Sturtevant	22. Nutrients, Eutrophica- tion, Hypoxia, and Harmful Algal Blooms <i>Co-Chairs: Mark Rowe,</i> <i>James Pauer, and</i> <i>David Miller</i>
	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
1:40	R. Eberhardt et al. Lake Superior Aquatic Invasive Species Complete Prevention Plan	<u>S. Missaghi</u> <i>et al.</i> Evaluating the Relationship of Climate Change, Lake Hydrodynamic, Shoreline Vegetations, and Bank Erosion	L.E. Vaccaro et al. Supporting Decision- making through Research and Collaboration: An Integrated Assessment Approach	<u>G.E. Small</u> et al. High Areal Nitrification Rates in Lake Superior
2:00	H.R. Quinlan <i>et al.</i> Parasitism by Sea Lamprey on Lake Sturgeon: Are Sea Lamprey Preventing Lake Sturgeon Rehabilitation in Lake Superior?	N.T. Schock <i>et al.</i> Impacts of Anthropogenic Disturbance on Macroin- vertebrate and Fish Populations in Great Lakes Coastal Wetlands	S.E. Da Silva and H. Shear Great Lakes Environmental Indicators and State of the Environment Reporting: Use, Needs, and Limitations	J. Finlay et al. Controls over Denitrification in Benthic Sediments of Lake Superior
2:20	H.R.Quinlan <i>et al.</i> Lakewide Fish Monitoring Efforts under the Auspices of Coordinated Science and Monitoring Initiative	A.D. Steinman <i>et al.</i> Water Levels in the Great Lakes: Influence on Nutrient Release	J.M. Hinderer and K. Glassner-Shwayder Regional Symposium to Build Capacity for the Management and Control of <i>Phragmites australis</i>	P. Mayorga and G.L. Boyer The Occurrence of Cyanobacterial Toxins in Lake Atitlan, Guatemala - A Cautionary Tale for the Great Lakes
2:40	<u>A.M. Varian</u> et al. Status, Distribution and Threats to Lake Superior Brook Trout	M.J. Cooper et al. Potential Impacts of Great Lakes Water Level Manage- ment on Coastal Wetland Fish and Macroinvertebrate Communities	<u>D.A. Jensen</u> and M.T. Kitson Science-based Research: A Driver in Aquatic Invasive Species Outreach	<u>S.B. Watson</u> and F. Pick Picoplankton Communities in Large Lakes: Spatial- temporal Patterns across Trophic and Mixing Regimes
3:00	<u>M.C. Ward</u> <i>et al.</i> An Evaluation of Coaster Brook Trout Rehabilitation Measures on the Minnesota Shore of Lake Superior	J.V. DePinto et al. Assessing the Impact of Basin Supplies and Regulation on the Upper Great Lakes System with an "Integrated Ecological Response Model" (IERM2)	<u>M.T. Kitson</u> <i>et al.</i> Moving Beyond the Borders: National Park Service Forms Partnerships for Preventing the Spread of Aquatic Invasive Species	
3:20	Break			

	Horizon Room 202	Horizon Room 203	Horizon Room 204
	5. Assessing Dynamics of the Great Lakes Water Budget Co-Chairs: Howard Reeves and Andrew Gronewold	13. History, Ecology, and Management of Aquatic Communities in Great Lakes Connecting Channels Chair: Edward Roseman	19. Great Lakes and Global Invasions Co-Chairs: Alexander Karatayev and Lyubov Burlakova
	Presented by / Title	Presented by / Title	Presented by / Title
3:40	<u>T.A. Dahl</u> and J.W. Lewis The Use of Residual Net Basin Supplies in the Great Lakes	J. Boase et al. Habitats Occupied by Juvenile Lake Sturgeon (<i>Acipenser fulvescens</i>) in the North Channel of the St. Clair River	<u>A.E. Karatayev</u> et al. Exotic Mollusks in the Great Lakes Region Host Pathogenic Trematodes
4:00	K.D. Holman and M. Notaro Understanding the Source of Monthly Variations in Great Lakes Water Levels	K.L. Kapuscinski <i>et al.</i> Trends in the Muskellunge Population and Fishery of the Buffalo Harbor (Lake Erie) and Upper Niagara River	D.A. Mayer et al. Pseudomonas fluorescens Strain CI 145A as : Bic p 2 t r de fo. the Control of Zebra and Quagga Mussels
4:20	L.M. Seaman Developing a Cumulative Impact Assessment for the Great Lakes Basin	J.M. Farrell et al. St. Lawrence River Muskellunge Population Trends Following Viral Hemorrhagic Septicemia Virus Outbreak	<u>A.S. Trebitz</u> et al. Early Detection Monitoring Approaches for Non- indigenous Species in Vulnerable Great Lakes Coastal Ecosystems
4:40	L.M. Fry et al. Implications of Changes in Climate, Irrigation Intensity, and Population Density for Annual and Seasonal Runoff in the Great Lakes Basin	M.R.Twiss et al. Nearshore Water Quality Transitions Reflect Functional Process Zones Along the St. Lawrence River: How 2-D Hydrodynamic Models can be used to Describe Plankton Dynamics	<u>A.Fusaro</u> et al. GLRI Enhancements to the Great Lakes Aquatic Nonindigenous Species Information System
5:00	K.L. Blann Developing Biological and Ecological Criteria to Protect Environmental Flows in Minnesota	N.E. Mandrak and A. Thompson Predicting Spawning Locations for Asian Carps in Great Lakes Connecting Channels using Particle Tracking Models	<u>W.H. Horns</u> Early Detection and Rapid Response may Not be Smart
6:00	Research Vessel Tours, Dulut	h Harbor behind the DECC	·

	French River Room	Horizon Room 205	Split Rock Room	Gooseberry Falls
	30. Making a Great Lake Superior: Past, Present and Future <i>Co-Chairs: Pamela Finlayson,</i> <i>Nancy Stadler-Salt, and</i> <i>Elizabeth LaPlante</i>	15. Ecosystem Effects of Changing Water Level Regimes <i>Chair: Scudder Mackey</i>	32. Education and Outreach: Applying Science to Problem Solving Chair: Rochelle Sturtevant	17. Contaminants of Concern: How Far Have We Come and Where Are We Going? Co-Chairs: Bernard Crimmins and Sean Backus
	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
3:40	S.A. Moore <i>et al.</i> In Search of <i>Albus</i> , a Morphometric Analysis to Determine the Status of Historic Forms of Cisco	D.G. Uzarski <i>et al.</i> Water Level Change and Associated Great Lakes Coastal Wetland Macroin- vertebrate Community Response Independent of Shifts in Vegetation	C.A. Hagley et al. Great Lakes Research Meets Great Lakes Education: Learnings from the COSEE Great Lakes Summit	T. Mitchell and E.R. Smith The Great Lakes Binational Toxic Strategy: 13 Years Later
4:00	P.J. Dryer Great Lakes Basin Fish Habitat Partnership Development using Lakewide Management Plans	A.R. Cabrera <i>et al.</i> Assessing Wetland Vegetation Response to Water Level Changes at the Long Point Wetland Complex, Lake Erie, Ontario	B.H. Munson et al. Effective Scientist— Teacher Collaborations Through COSEE Great Lakes	D. Hu et al. Sedimentary Records of Non-aroclor and Aroclor PCB Mixtures in the Great Lakes
4:20	<u>G.S. Casper</u> and S.J. Hecnar Coordinated Monitoring of Amphibians and Reptiles in the Lake Superior Basin	E.L. Gertzen and S.E. Doka Assessment of Fish Habitat Supply in Long Point Bay, Lake Erie in Response to Water Level Regime	<u>S.R. Stewart</u> and D.P. Lusch COSEE Great Lakes: Scientists Who have Made a Difference and Broadened Impacts	T.S. Schulz et al. Comparison of Indoor PCB Air Contamination with Outdoor Air in East Chicago, IN, and Colum- bus Junction, IA
4:40	<u>M.J. Brouder</u> and H.R. Quinlan Use of Low-cost Side Scan Sonar to Map Nearshore Coaster Brook Trout Habitat at Isle Royale National Park	B.A. Murry et al. Beyond Mean Monthly Water Levels: The Effects of Water Level Magnitude, Timing, and Rate of Change on Coastal Wetland Fish Assemblages	J. Chadde and S. Dann Great Lakes Stewardship through Teacher Leadership in Conservation Education	<u>A. Martinez</u> and K.C. Hornbuckle Record of PCB Congeners, Sorbents and Toxicity in Core Samples from Indiana Harbor and Ship Canal
5:00	F. Fitzpatrick and M. Fedora Trends in Streamflow for Lake Superior Tributaries during the 20th Century		J.R. Peller and A. Argyilan Awareness, Education and Action: Students and Educators Taking Owner- ship of the Lake Michigan Watershed	D. Burniston et al. Upstream i I on m in a n Va e . 4) uit ridge
6:00	Harbor behind the DECC	Research Vessel Tours, Duluth		

	Horizon Room 202	Horizon Room 203	Horizon Room 204
	4. Global Trends in Lake Temperature and Associated Impacts on Lacustrine Systems <i>Co-Chairs: John Lenters,</i> <i>David Livingstone, and</i> <i>Simon Hook</i>	12. Restoration and Management of Native Deep-water Fish Communities in the Great Lakes Co-Chairs: Tom Hrabik and Owen Gorman	9. Changes in Lower Food-Webs: Among-Lake Comparisons from Biological Monitoring Programs Chair: Thomas Johengen
	Presented by / Title	Presented by / Title	Presented by / Title
8:00	<u>S.J. Hook</u> and P. Schneider Global Trends in Lake Surface Temperatures Estimated From Thermal Infrared Satellite Imagery	B.F. Lantry and R.L. Eshenroder Recent Changes in Successional State of the Deepwater Fish Communities of Lakes Michigan, Huron and Ontario	<u>H.P. Riessen</u> et al. Calcium, Kairomones, and Growth of <i>Daphnia</i>
8:20	<u>S.E. Hampton</u> et al. Long-term Warming and Variation of Seasonal Timing in Lake Baikal, Siberia	J.G. Londer et al. Winter Diet of Sculpins from the Abysses of Northern Lake Michigan	<u>H. Kling</u> et al. Long Term Changes in Lake Winnipeg and Lake of the Woods Plankton
8:40	<u>B.M. Kraemer</u> et al. Pelagic and Littoral Warming in Lake Tanganyika, East Africa	J. Biberhofer et al. Underwater Vi lec Definitiation of Co elected Offshore Reefs and Shoals in Lake Huron	<u>G. Carter</u> et al. Benthos Population Trends across the Great Lakes, 1997-2009
9:00	D.M. Livingstone Spatial Coherence and Temporal Change: The Physical Impact of Large- scale Climatic Forcing and Long-term Climate Change on Inland Waters	J.T. Myers <i>et al.</i> Evaluating Effects of Temperature on Lake Superior Cisco Recruitment	<u>R.P. Barbiero</u> and G.J. Warren Rotifer Communities in the Laurentian Great Lakes, 1983-2006
9:20	<u>A.M. Layden</u> et al. Evaluation of Factors Determining the Surface Temperatures of Large Lakes Worldwide	M.J. Seider <i>et al.</i> Age, Growth and Maturity of Siscowet Lake Trout in Lake Superior, 1994-2007	J.M. Watkins and L.G. Rudstam Evaluating the Role of Quagga Mussel Expansion on Phytoplankton of Lake Ontario
9:40	J.D. Lenters et al. Rapid Increases in Lake Surface Temperature in Recent Decades: The Potentially Significant Role of Regional Brightening	J.A. Schuldt Morphological Differences Between Lean and Siscowet Lake Trout Morphotypes in Minnesota Waters of Lake Superior	K.T. Holeck <i>et al.</i> Timing of Changes in the Lake Ontario Lower Food Web
10:00	Break		

	French River Room	Horizon Room 205	Split Rock Room	Gooseberry Falls
	30. Making a Great Lake Superior: Past, Present and Future <i>Co-Chairs: Pamela Finlayson,</i> <i>Nancy Stadler-Salt, and</i> <i>Elizabeth LaPlante</i>	28. Ballast Water Treat- ment and the Great Lakes <i>Co-Chairs: Allegra Cangelosi</i> <i>and Jeffrey Henquinet</i>	32. Education and Outreach: Applying Science to Problem Solving <i>Chair: Rochelle Sturtevant</i>	17. Contaminants of Concern: How Far Have We Come and Where Are We Going? Co-Chairs: Bernard Crimmins and Sean Backus
-	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
8:00	<u>K. Taillon</u> et al. Status of Canada's Lake Superior Areas of Concern	J.E. Gannon Invasive Species plus Climate Change: The Perfect Storm for Lake Superior	R.W. Fortner COSEE Great Lakes: Reaching Multiple Audiences for Science and Education	H. Hung et al. Temporal Trends in: Atrest tetic Diposition of The intelligentiation to the Great Lakes: 1992-2008 Loadings Estimates
8:20	<u>R. Stewart</u> <i>et al.</i> Coming Down From the Ivory Tower: Can Universities Balance the Research and Applied Governance Needs of Remedial Action Plans?	D.A. Reusser et al. Density Matters: A Linear Model to Evaluate Future Invasion Risk from Ballast Water Discharge	H.D. Walters and <u>R.W. Fortner</u> COSEE Great Lakes: Find- ings of the Evaluation Study	R.F. Marek <i>et al.</i> PCBs and OH-PCBs in Children and Their Mothers Living in Urban and Rural Communities
8:40	J.F. Bailey et al. Making it Great, Keeping it Great - Lessons Learned on Superior	<u>E.D. Reavie</u> <i>et al.</i> Protists in Ballast Water: Assessment Methods and Performance of a Candidate Ship-board Treatment System	<u>M. Lansing</u> et al. Forming New Partnerships to Reach New Audiences: The Creation and Successful Launch of a Traveling Great Lakes Educational Exhibit	B. Crimmins <i>et al.</i> Perfluoroalkylated Compounds (PFCs) in Great Lakes Fish as part of the Great Lakes Fish Monitoring and Surveillance Program
9:00	H. Sorensen et al. Citizen-based Monitoring in the Lake Superior Basin: An Inventory of Local Indicators, Decisions and Partnerships to Enhance Lakewide Management and Monitoring	J. Gerlofsma and S.A. Bailey Assessment of F at Ft 1 I en 2 y in Ba latt Vate Sumples using a High Reso- lution Laser Optical Plank- ton Counter and FlowCAM	<u>C.G. Wellington</u> et al. Artificial Fish Habitat in Lake Erie Marinas	E.A. Tromp et al. PBDEs in Lake Huron Fish
9:20	<u>M.J. Hudson</u> and V.A. Damstra The Marengo River Watershed Partnership: A Local Community Making a Great Lake Superior	<u>B.Watten</u> <i>et al.</i> Active Mixing Techniques in Ballast Water Tanks	<u>R.G. Goettel</u> <i>et al.</i> Undoing the Great Lakes Chemical Brew: Education and Outreach Tools for Effective Decisions Regarding Safe Disposal of Unwanted Medicines	<u>R.J. Letcher</u> et al. Current-use Flame Retardants in Great Lakes Herring Gulls: (Non) Halogenated Organophos- phates and Other Surprise Findings
9:40	<u>C.T. Creech</u> et al. Reducing Sediment Yields to Lake Superior: Case Studies from the Great Lakes Tributary Modeling Program	M.D. Balcer and A.A. Cangelosi Evaluating the Effectiveness of Ballast Water Treatment on Freshwater Zooplankton: Looking for the Needle in the Haystack	L.A. Kammin and S.E. Boehme Sustainable Unwanted Medicine Collection Programs: Strategies from the Great Lakes States and Beyond	J. Pagano et al. Non-PBDE Flame Retardants in Great Lakes Fish
10:00	Break			

	Horizon Room 202	Horizon Room 203	Horizon Room 204
	4. Global Trends in Lake Temperature and Associated Impacts on Lacustrine Systems Co-Chairs: John Lenters, David Livingstone, and Simon Hook	12. Restoration and Management of Native Deep-water Fish Communities in the Great Lakes <i>Co-Chairs: Tom Hrabik</i> <i>and Owen Gorman</i>	
	Presented by / Title	Presented by / Title	Presented by / Title
10:20	<u>R.P. North</u> and D.M. Livingstone 1D Modeling of Climate Change Impacts on Hy- polimnetic Oxygen Deple- tion	<u>A.M. Muir</u> <i>et al.</i> Phenotypic Diversity of Lake Trout at Isle Royale, Lake Superior	
10:40	<u>P. Cheng</u> and J.A. Austin Seasonal Dependence in the Response of Lake Water Temperatures to Atmospheric Warming	D.R. Schreiner and M.P. Ebener Establishment of a Commercial Siscowet Fishery in Lake Superior: Considerations, Concerns and Consequences	
11:00	<u>D. Straile</u> et al. Lake Temperatures as Proxies for Plankton Succession	T.R. Hrabik <i>et al.</i> Prey Supply and Demand in Offshore Waters of Lake Superior: Does Diel Vertical Migration Stabilize Predator —Prey Interactions?	
11:20	K. Teubner and <u>M.T. Dokulil</u> Intra-annual Trends in the Timing of Rapid Spring Warming Induced by Climate Signal and its Effects on Phytoplankton Seasonality		
11:40	M. Dokulil and K. Teubner Climate-induced Variability in the Irradiance and Temperature-dependent Spring Maximum of Phytoplankton in Deep Alpine Lakes		
12:00	Conference Ends		

	French River Room	Horizon Room 205	Split Rock Room	Gooseberry Falls
	30. Making a Great Lake Superior: Past, Present and Future <i>Co-Chairs: Pamela Finlayson,</i> <i>Nancy Stadler-Salt, and</i> <i>Elizabeth LaPlante</i>	28. Ballast Water Treat- ment and the Great Lakes Co-Chairs: Allegra Cangelosi and Jeffrey Henquinet	32. Education and Outreach: Applying Science to Problem Solving <i>Chair: Rochelle Sturtevant</i>	17. Contaminants of Concern: How Far Have We Come and Where Are We Going? Co-Chairs: Bernard Crimmins and Sean Backus
	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
10:20	R.P. Boudreau <i>et al.</i> Lake Superior National Marine Conservation Area	P.A. Green and S.S. Smith Developments in Emergency Ballast Treatment Technologies	K. Eckman <i>et al.</i> The Lakeside Stormwater Reduction Project: Evaluating the Impacts of a Paired-watershed Study on Local Residents	Y.Ma et al. Alternative Flame Retardants in the Atmosphere Over the Great Lakes
10:40	F.N. Dawson Monitoring Mammalian Carnivores in the Lake Superior Basin: Challenges and Opportunities	S.A. Bailey Proposal to Utilize Ballast Water Exchange in Combination with a Ballast Water Management System to Achieve an Enhanced Level of Protection	J. Beck and J.E. Edstrom Enhancing Opportunities for Interactive Watershed Management in the Lake Michigan Basin	<u>M.L. Craddock</u> <i>et al.</i> Increasing Partnerships and Collaboration on Great Lakes Emerging/Emerged Contaminant Research
11:00	L.D. Betzhold and R.L. Mataosky Elevation Advances for Lake Superior and the Great Lakes: New Bathymetric LiDAR and an Inventory of Coastal Elevation		K.M. Ballard et al. Learning how to Become More Resilient to Coastal Hazards on the Great Lakes: Inquiry-based Lessons Inte- grating Open Water Observa- tions and Local Government Spatial Data	A. Li et al. Non-PBDE Flame Retarders in the S. d. n ent ofthe C. r. at L. 425
11:20	N.J. Schuldt <i>et al.</i> Mining in the Lake Superior Basin: Tribal Agencies Collaborate to Protect Resources of Cultural Importance		R.W. Pillsbury Fingerprinting Nuisance <i>Cladophora</i> Events: Can Associated Attached Algae Provide Management Tools?	J. Struger et al. Occurrence and Distribution of Sulforyl et al. n. R i ited H et i i i i s in Central Canadian Surface Waters, 2006-2008
11:40				D.J. McGoldrick et al. Status and Trendro CETEELING OT HE Continated Flame Retardants in Canadian Fish
12:00	Conference Ends			

Notes

Poster Social and Judging: Tuesday, May 31, 5:00-7:00 p.m., Edmund Fitzgerald Hall Posters will remain up for viewing for the duration of the conference

> Authors present: 5:00 - 6:00 p.m. for odd numbered posters 6:00 - 7:00 p.m. for even numbered posters 5:00 - 7:00 p.m. for all students being judged

Theme: Physics and Hydrology (posters PH-1 through PH-14)

1. Physical Processes in Lakes

PH-1 <u>Liu, W.</u>, Bocaniov, S., Lamb, K.G., and Smith, R.E.H. Hydrodynamic-biogeochemical Modeling

of Lake Erie in 2008

- **PH-2** <u>Missaghi, S. and Hondzo, M.</u> Evaluation and Application of a Threedimensional Ecological Model in a Morphologically Complex Lake
- PH-3 Ong, J.B., <u>Lenters, J.D.</u>, Zlotnik, V.A., and Jones, S.L. Variations in the Energy, Water, and Salt Balance of a Saline Lake in the Semi-arid Sandhills Region of Western Nebraska (USA)
- PH-4 Roehm, C., Anderson, E., Beletsky, D., Perrelli, M., Singer, J., and Vermette, S. Hydrodynamics of Nearshore Lake Erie: An Insight into Winter Conditions

PH-5 <u>Withers, J.L.</u>, Hook, T.O., Troy, C.D., and Foley, C.J. Larval Yellow Perch (*Perca flavescens*) and Alewife (*Alosa pseudoharengus*) Distributions in Response to Fine-scale Temperature Pattern in Nearshore Lake Michigan

2. Extreme or Catastrophic Events in Lakes and Rivers

PH-6 Clark, G.R., Anderson, J.D., Krumenaker, R.J., and Wu, C.H. Design and Implementation of a Real-time Wave Observation System (RTWOS) at the Apostle Islands Mainland Sea Caves

3. Climate Variability in Large Lakes Mediated by Continental–to–Global Scale Forcing

- PH-7 <u>Hu, H., Wang, J., Schwab, D.,</u> and Leshkevich, G. Simulation of Lake Erie Ice from 2007 to 2010
- PH-8 <u>Luo, L.</u> and Wang, J. Modeling Ecosystem in Lake Michigan

- Scheelk, B., Anderton, J.B., Lenters, J.D., and Van Cleave, K. Quantifying the Seasonal and Diurnal "Lake Effect" of Lake Superior: A Yearround Comparison between Onshore and Offshore Meteorological Conditions near Marquette, Michigan
- 4. Global Trends in Lake Temperature and Associated Impacts on Lacustrine Systems

PH-9

PH-10 Read, J.S., Hamilton, D.P., Muraoka, K., Wu, C.H., Eckert, W., Lenters, J.D., and Winslow, L. Drivers of Lake Water Temperature

across Gradients of Climate and Size: A Global Analysis of High-frequency Instrumented Buoy Data from 25 Temperate Lakes

PH-11 Zigler, O., Austin, J.A., and Vinson, M. Development of a Historical Water Temperature Profile Database for Lake Superior

5. Assessing Dynamics of the Great Lakes Water Budget

- PH-12 <u>Clites, A.H., Hunter, T., Gronewold, A.D.,</u> and Stow, C.A. An Appraisal of the Great Lakes Advanced Hydrologic Prediction System
- **PH-13** Kondabolus, S. and Lenters, J.D. Changes in the Seasonal Water Balance of the Tahquamenon River Watershed Since 1953: Earlier Spring Onset in the Northern Great Lakes Region
- PH-14 Phanikumar, M.S., Shen, C., and Niu, J. Understanding Water Budgets in Great Lakes Watersheds Using an Efficient, Process-based Distributed Hydrologic Model

Theme: Biology and Ecosystems (posters BE-15 thru BE-37)

- 6. Large Asian and African Lakes
- **BE-15** <u>Klump, J.V.</u> and Edgington, D.N. Diagenesis of Sedimentary Organic Carbon in Lake Baikal
- BE-16 <u>Kruger, B.R., Minor, E.C., Werne, J.P.,</u> and Johnson, T.C. Spatial Distribution and Sources of Sedimentary Carbon in Lake Malawi, Africa

BE-17 Ngochera, M., Macuine, M., Hecky, R.E., and <u>Guildford, S.J.</u> Defining Patterns of Phytoplankton Composition and Abundance in Lake Malawi

8. Genetics, Genomics and Metagenomics in Great Lakes Microbial Communities

- **BE-18** <u>Munoz Ucros, J. and Hicks, R.E.</u> Comparing the Distributions of Planktonic *Archaea* in Lakes Superior and Malawi
- BE-19 Shtarkman, Y.M., Edgar, R.E., Morris, P.F., and Rogers, S.O. Metagenomic Analysis of Ice from the Central Basin of Lake Erie

9. Changes in Lower Food Webs: Among–Lake Comparisons from Biological Monitoring Programs

- **BE-20** <u>Harrison, J.W. and Smith, R.E.H.</u> Effects of UV Radiation on Lake Ontario Phytoplankton Photosynthesis
- **BE-21** Stoneman, A.T., Kocovsky, P.M., Kraus, R.T., Lee, C.S., and Plumb, R.S. Diet, Age, and Reproduction of Trout-Perch in the Western Basin of Lake Erie
- BE-22 <u>White, B.A.,</u> Matsumoto, K., and Austin, J.A.

Controls on Lower Trophic Level Ecosystem Trends in Lake Superior: A Numerical Modeling Study

10. Exploring Food Web Linkages and Dynamics in the Upper Great Lakes: Past, Present, and Future

- **BE-23** <u>Beall, B.F.N., McKay, R.M., and</u> Bullerjahn, G.S. Phytoplankton Through Different Eyes: Flow Cytometric Analysis of Phytoplankton Communities in Lake Superior
- **BE-24** Larson, J.H., Richardson, W.B., Vallazza, J.M., and Nelson, J.C. Relationships between Watershed Characteristics and Food Web Structure in Lake Michigan Rivermouth Ecosystems
- **BE-25** <u>Mueller, S.K., Branstrator, D.K., and</u> Hrabik, T.R. Phosphorus Regeneration by *Mysis relicta* in the Deep Chlorophyll Layer of Lake Superior

BE-26 Munawar, M., <u>Niblock, H.</u>, Fitzpatrick, M., El-Shaarawi, A., Lorimer, J., Rozon, R., and Kling, H. Intensive Field and Laboratory Testing of the Fluoroprobe for Assessing

Photosynthetic Communities Under Eutrophic and Oligotrophic Conditions

BE-27 Simmons, L.J., Sandgren, C.D., Berges, J.A., and Engevold, P.M. Interpreting Phytoplankton Seasonal Dynamics in the Great Lakes: Application of High-performance Liquid Chromatography (HPLC)

11. Gobies in the Great Lakes and Their Watersheds

- **BE-28** Foley, C.J., Roswell, C.R., Pothoven, S.A., Nalepa, T.F., and Hook, T.O. Estimating Impacts of Round Goby Predation on Dreissenid Abundance in Saginaw Bay, Lake Huron
- BE-29 Stepien, C.A., Murphy, D.J., Brown, J.E., and Sopkovich, E. The Genetic History of the Round Goby (*Neogobius melanostomus*) Invasion

12. Restoration and Management of Native Deep-water Fish Communities in the Great Lakes

- **BE-30** Gorman, O.T. and Hrabik, T.R. Fish Communities of Nearshore and Offshore Waters of Lake Superior: Patterns, Connections, and Trends
- **BE-31** <u>Guildford, S.J.</u>, House, G., Pevan, T., Van Der Werff, J., and Hecky, R.E. Seasonal Development and Spatial Extent of the Deep Chlorophyll Layer in Lake Superior
- BE-32 Schaeffer, J., Roseman, E., and Fietsche, C. Deepwater Sculpin (*Myoxocephalus thompsonii*) Ecology at Extreme Depths in Lake Huron

39. Fish and Fisheries in Large Lakes

BE-33 Randall, R.G. and Brousseau, C.M. Applying Taylor's Power Law to Fish Cat. h Cat. if for r1 learst cre Areas of the Great. a kis. Inferences about Sample Precision and Species Dispersion

13. History, Ecology, and Management of Aquatic Communities in Great Lakes Connecting Channels		HI-41	Just, A., Corry, T.D., and Hoffman, J.C. Zooplankton Linkages between Rivers and Great Lakes: Case Study from the St. Louis River	
BE-34	Larson, D., McNaught, S., and Roseman, E. Assessment of Nursery Habitat Use by Larval Fishes in the St. Clair River Delta, MI	HI-42	Scharold, J.V., Yurista, P.M., Kelly, J.R., and Corry, T.D. Benthic Macroinvertebrate Assemblages in the Near Coastal Zone of Lake Erie	
BE-35	Rippke, M.B., <u>Farrell, J.M.,</u> Teece, M.A., Distler, M.T., Leopold, D.J., and Mullins, H.T.	HI-43	Van Alstine, J.D., <u>Yurista, P.M.,</u> Kelly, J.R., and Miller, S.E. Lake Michigan: Nearshore Variability	
	Evidence of a Dry Hypsithermal Climate and the Nipissing Flood from an Upper St. Lawrence River (New York) Coastal Wetland		17. Contaminants of Concern: How Far Have We Come and Where Are We Going?	
BE-36	Smart, A.M., McNaught, A.S., and Ogren, S.A. Ecological Requirements of Wild Rice (<i>Zizania sp.</i>) in the Lower Peninsula of Michigan	HI-44 Chang, F.C., Tholsen, T.M., Crimmins, B.S. Hopke, P.K., Pagano, J.J., and Milligan, M.S. Temporal Trend Analysis of Polychlor- inated Biphenyls and Organochlorine Pesticides in the Great Lake Fish,		
	stal Wetlands of North American at Lakes	111.45	1999-2009	
BE-37	Blass, C.R., Gehring, T.M., Murry, B.A., and Uzarski, D.G. Mute Swan Impacts on Great Lakes Coastal Wetland Health Using a Macroinvertebrate-based Index of Biotic Integrity	HI-45	Crimmins, B., Pagano, J., Xia, X., Milligan, M., Hopke, P., and Holsen, T. Polybrominated Diphenyl Ethers (PBDEs) in Great Lakes Lake Trout: Turning the Corner in the Great Lakes Region 1980-2008	
T (p	heme: Human Impacts osters HI-38 thru HI-75)	HI-46	Gewurtz, S.B. and <u>McGoldrick, D.J.</u> Evaluating Environment Canada's Fish Contaminant Monutering in d Surveil- lance Program Through Power Analysis: Optimizing Effort to Meet Future	
16. Link Grea	lages Between the Landscape and at Lakes Coastal Ecosystems	HI-47	Requirements <u>Holem, R.R.,</u> Newsted, J.L., Matousek, J.J., Tazelaar, D.L., Roark, S.A., and	
HI-38	<u>Crouse, A.B.</u> , Axler, R.P., Host, G.E., Brown, T.N., Erickson, J.M., and Johnson, L.B. Land Use/Land Cover and Hydrologic Effects on North Shore Superior Tributary Water Quality		Kay, D.P. Relationships Between Mercury and Other Common Compounds of Concern in Fishes From the Saginaw Bay Watershed	
HI-39	Herrera, L.S. and Brady, V.J.	HI-48	Lohmann, R. and Muir, D. Using Passive Samplers to Detect	
	Using North Shore Streams and Benthic Macroinvertebrates to Develop an	HI-49	Emerging PBTs in the Great Lakes	
	Indicator of Stream Impairment due to Excess Sediment	пі-49	McGoldrick, D.J., Durham, J., Leknes, H., Kierkegaard, A., and Gerhards, R. Assessing in a cabara of y Comparability	
HI-40	Jereczek, J.C., Wagner, C., Larson, N.J., and Ledder, T.D. Slow the Flow: a Regional Assessment and Management Strategy for Wisconsin's Lake Shore		and L m. s of Determination for the Analysis of Cyclic Volatile Methyl Siloxanes in Whole Rainbow Trout (Oncorhynchus mykiss)	

HI-50	Mulugeta, S.G., Greene, K.E., Spacht, D.E., Clark, E.J., Jones, G.E., and <u>Mauro, S.A.</u> The Active Ingredient in Anti-depressants Decreases Bacterial and Viral Content in a Freshwater Aquatic Ecosystem		
HI-51	Palonen, K.E., De Solla, S.R., and <u>Struger, J.</u> Phenology of Amphibian Breeding in Relation to Pesticide Exposure in Ontario		
HI-52	Rodenburg, Z.L. and Hornbuckle, K.C. Polychlorinated Biphenyl Congeners in Lake Michigan Air and Water in 2010		
HI-53	Route, W.T., Dykstra, C.R., Rasmussen, P.W., Key, R., and Meyer, M.W. Emerging Contaminants in Nestling Bald Eagles at Three National Parks in the Upper Midwest		
HI-54	Saborido Basconcillo, L., Backus, S., <u>Struger, J.,</u> and Lee, H.B. Occurrence of Bisphenol A in the Canadian Aquatic Environment		
HI-55	Xia, X., Hopke, P.K., Holsen, T.M., Crimmins, B.S., Pagano, J.J., and Milligan, M.S. Toxaphene Concentrations and Trends in the Great Lakes Top Predator Fish		
HI-56	Yucuis, R.A. and Hornbuckle, K.C. Organosiloxane Compounds in the Great Lakes: Preliminary Method Development and Results		
HI-57	Zhu, X., Johnson, N.W., and Beck, B. Protecting the St. Louis Estuary by Reducing Polycyclic Aromatic Hydrocarbons (PAHs) Levels in Stormwater Runoff		
18. Recent Impacts of Invasive Species on the Great Lakes Ecosystem			
HI-58 HI-59	Kapuscinski, K.L., Farrell, J.M., and Wilkinson, M.A. Feeding Ecology and Population Structure of a Non-native Cyprinid, the Rudd (<i>Scardinius erythrophthalmus</i>), in the Buffalo Harbor (Lake Erie) and Upper Niagara River Ryan, D.J., Hook, T.O., and Sepulveda, M.S. Non-lethal Effects of Lampricide Exposure on Non-target Species		

19. Great Lakes and Global Invasions

- HI-60 <u>Baker, E.</u>, Sturtevant, R., Rutherford, E., Fusaro, A., and Allen, J.D. GLANSIS Watchlist
- HI-61 Branson, D.R. and McNaught, A.S. Feeding Behavior of a Recent Great Lakes Invasive Mysid, *H. anomala*
- HI-62 Czypinski, G.D., Nemec, R., Jablonski, V., and Reardon, C.J. Cost-effective Early Detection Monitoring for Invasive Mollusks and Fish
- HI-63 Larson, J., Sturtevant, R.A., Rutherford, E., and Fusaro, A. GLANSIS Organism Impact Assessment

HI-64 Pillsbury, R.W., Thompson, J.A., and Edlund, M.B. The History of the Nuisance Alga *Didymosphenia geminata* in Lake Superior: Should We be Concerned?

21. Assessing Effects of Toxic Substances in the Great Lakes

- HI-65 Maity, S., Jannash, A., Adamec, J., Gribskov, M., Höök, T., and Sepúlveda, M. Study of *Diporeia* Physiology in Response to the Diatom Diet and Polychlorinated Biphenyl (PCB) Exposure using Metabolomics
- HI-66 Offenberg, J.H., Piletic, I., Lewandowski, M., Kleindienst, T.E., Docherty, K.S., and Jaoui, M. Contributions of Secondary Organic Aerosol to Particulate Matter Pollution in Cleveland Ohio during 2009/2010
- HI-67 Olker, J.H., Schoff, P.K., and Johnson, R.D. Distribution of Testicular Oocytes within Male *Rana pipiens*

22. Nutrients, Eutrophication, Hypoxia, and Harmful Algal Blooms

- HI-68 Hargan, K.E., Paterson, A.M., and Dillon, P.J. A Total Phosphorus Budget for the Lake of the Woods
- HI-69 Heckathorn, S.A., <u>Chaffin, J.D.</u>, Bridgeman, T.B., Mishra, S., and Kuhaneck, R.M. Growth Rate and Lipid Production of *Fragilaria crotonensis* under Different Nutrient, Salinity, and Temperature Levels

Poster Session

HI-70 HI-71	Lambert, R.S., Jones, E.K., Depetro, P.A., and Auer, M.T. Bioavailability of Phosphorus Entering the Great Lakes Millie, D., <u>Fahnenstiel, G.,</u> and Weckman, G. An 'Enviro-Informatic' Assessment of Saginaw Bay Phytoplankton: Characterization and Modeling of Microgenetic	26. Date	Yousef, F., Kerfoot, C.W., Shuchman, R., Green, S.A., and Sabol, B.M. LiDAR (Light Detection and Ranging) and MSS (Multi-spectral Scanner) Studies of Lake Superior Coastal Environments
HI-72	Microcystis Mishra, S., Kuhaneck, R., Philips, M., Bista, D., Armenio, P., Chaffin, J., <u>Heckathorn, S.,</u> and Bridgeman, T. Environmental Controls on Growth and Lipid Content of the Abundant Bloom-forming Diatom, <i>Aulacoseira</i> granulata: Implications for Algal Blooms, Food Quality, and Biofuel Production	TT-79	Dufour, M.R., Pritt, J.J., Mayer, C.M., Tyson, J.T., Weimer, E.J., Kocovsky, P.M., and Stow, C.A. Estimating Larval Fish Export from the Maumee River: Tracking Variability Through Space and Time Hanrahan, J.L. and Kravtsov, S.V. Interdecadal Cycles of Lake Michigan
23. Mic	robial Issues in Great Lakes		Water Levels
HI-73	<u>Fogarty, L.R.,</u> Isaacs-Cosgrove, N.M., Duris, J.W., Riley, S.C., Blehart, D.S.,	27. Grea	at Lakes Observation Networks
	Tucker, W.C., and Piazza, T.M. Botulism Type E Genetic Toxin Potential in Samples Collected in Lake Michigan near Sleeping Bear Dunes National Lakeshore	TT-81	Green, S., <u>Shuchman, R.A.,</u> Kerfoot, W.C., Brooks, C.N., Sayers, M.J., Endsley, K.A., and Jessee, N.L. Supporting GLOS Through Taking Remote Sensing Algorithms Operational
HI-74	Moynihan, M.A., Kannappan, V., Kashian, D., Stow, C.A., and Gronewold, A.D. <i>E. coli</i> and <i>Enterococci</i> Concentrations in Great Lakes Beaches: Implications of Small Scale Sampling Variability on Perceived Threats to Human Health	TT-82	and Increasing Access to Sensor Data <u>Hart, D.A., Hagley, C.A.,</u> and Wortley, A.J. Great Lakes Mapping Mashups: Promoting Data-driven Decision- making for the Great Lakes
HI-75	Reed, A.J., Bergin, J.M., Oster, R.J., and Hicks, R.E. The Diversity of Bacterial Communities Associated with Corroding Steel Structures and Water in the Duluth— Superior Harbor	TT-83	Roehm, C.L., Anderson, E., Beletsky, D., Perrelli, M., Singer, J., and Vermette, S. Observing and Monitoring Systems in Nearshore Lake Erie
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24. Rem Spat	ote Sensing, Visualization, and ial Data Applications for the it Lakes	TT-84	Moore, Z., Austin, J.A., and Green, P. Tracing a Ballast Water Release in the Duluth/Superior Harbor Using Fluorescent Dye
TT-76	Binding, C.E., Greenberg, T.A., Bukata, R.P., Letourneau, G., and Watson, S. Satellite Remote Sensing of Potentially Harmful Algal Blooms in Lake of the Woods	29. Pale	Abel, E.J., Cohen, A.S., and Brown, E.T. Exploration of Lake Malawi Sediments through X-radiographic Imagery
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30. Maki Present a	ing a Great Lake Superior: Past, and Future	
PMEC-87	Barrett, C.H., Taillon, K., Kim, K., Milani, D., Chambers, M., McChristie, M., Henning, M.H., Fuchsman, P., and Antunes, P.M.C. Use of Multiple Lines of Evidence to Support Sediment Remediation and Management Decisions for the St. Marys	РМЕ
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West LakeS Storm Alive	erbur, A., and Anderson, K. SuperiorStreams.org: Making Inwater and Stream Data Come for Citizens, Students, Teachers, ractors, Resource Agencies,	PME

PMEC-94 <u>Cabrera, S.C., Boehme, S.E.,</u> Smith, E.R., Goettel, R., Hallesy, T., Kammin, L.A., and McCartney, A. Unwanted Medicines and Educating our Communities: What Have We Learned, How are We Doing, and What are the Next Steps?

MEC-95 <u>Desotelle, D., Hagley, C.A.,</u>
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A View From the Lake: Taking Lake
Superior Science from Research to
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PMEC-96 Florence, L.W., LaPorte, E.A., Stewart, S., <u>Hagley, C.A.,</u> and Hart, D. Teaching with Great Lakes Data: Real Data in the Classroom

PMEC-97 Manzo, L.M. and <u>Fortner, R.W.</u> Introducing the Great Lakes Literacy

Essential Principles and Fundamental Concepts for Great Lakes Learning: An Educational Framework to Enhance Research Proposals

PMEC-98 Rutherforde, S., <u>Sturtevant, R.A.,</u> and Walters, H.

The Great Lakes Climate Change Science and Education Systemic Network

PMEC-99 <u>Stewart, S.R.</u>, Vail, J., Kelly, T., and Nugent, R. Coordinated Lake-specific Onboard

Education and Outreach: A Michigan GLRI Initiative

33. Science, Civic Engagement, and Undergraduate Education Initiatives

PMEC-100 <u>Chaffin, J.D.</u> and Stepien, C.A. Water Quality of Toledo Area Streams: Monitoring by Local High School Students with the Help of University of Toledo Graduate Students

PMEC-101 Goettel, R.G.

Extending Learning Beyond the University Classroom and into the Community: A Model for Civic Action to Prevent AIS Spread

MEC-102 <u>Goettel, R.G.</u> and Hallesy, T.E. Creating New Understandings of Great Lakes and Marine Issues through "Fresh and Salt" Curriculum

MEC-103 Gogineni, P., Januska, B., Minniefield, C., and <u>Simoliunas, S.</u> The Tale of Two Cities and Two Judges

Decision-makers and Scientists

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PMEC-104 <u>Kane, D.D.</u>, Mavroidis, S.M., Maxcy, J., Golnick, P., McKay, R.M.L., Griggs, N.D., and Czech, M. See the Maumee River GLISTEN!

PMEC-105 <u>Kane, D.D.</u>, Coburn-Griffis, A., Vargo, R., Gordon, D., Kohls, A., and Lakes, R. Ohio Stream Quality Monitoring Project: Volunteer Monitoring and

Undergraduate Research

35. Great Lakes Adaptive Management and Climate Change

PMEC-106 <u>Sturtevant, R.A.</u>, Lichtkoppler, F., MacNeill, D., Bergeron, D., Clark, G., Hart, D., Miller, B., Pistis, C., Dolor, M., and Lucente, J. Preparing Coastal Communities for Climate Change

36. Large Lakes Science Solutions – Research Leading to Management Tools and Development of Policy

PMEC-107 <u>McDaniel, T.</u>, Neilson, M., Chandler, J., Faveri, G., Grim, L., Saunders, K., and Bourget, F.

and Bourget, E. IJC Interact can Lake of the Voods and Rainy River Watershed Task Force: Shared Waters, Shared Management — What is the Best Approach?

37. Science to Management in the St. Louis River Area of Concern

PMEC-108 <u>Host, G.E.</u>, Axler, R.P., Silbernagel, J., Danz, N.P., Schuldt, J., Hart, D.A., Drewes, A., Wagler, M., Mathews, J., Hagley, C.A., and Schomberg, J. Stressor Gradients and Spatial Narratives of the St. Louis River Estuary

38. Great Lakes Maritime Commerce: Challenges and Opportunities

PMEC-109 <u>Bista, D.,</u> Kuhaneck, R., Mishra, S., Phillips, M., Armenio, P., Chaffin, J., Heckathorn, S., and Bridgeman, T. Use of Natural Algal Assemblages as Seed-stock for Biofuel Production

PMEC-110 <u>Dunlop, E.S.</u> and Nienhuis, S. The Ecological Footprint of Offshore Wind Power Projects in the Great Lakes: Effects on Fish and a Review of Potential Mitigation Measures

PMEC-111 Opfer, S.E., Arthur, C.D., and Lippiatt, S.M. NOAA Protocols for Marine Debris Monitoring and Assessment in Coast.

Monitoring and Assessment in Coastal Surface Waters of the Great Lakes

PMEC-112 Vaccaro, L.E. and Read, J.

Estimating the Number of Great Lakes Jobs and Demonstrating the Value of the Lakes

A. Abel, E.J.TT-85 Adamec, J.HI-65 Ahmed, S.S1-Tue-4:00 Aichele, S.S.S5-Thu-10:40 S16-Tue-3:40 / S22-Wed- 10:40 Allan, M.G.S24-Wed-2:20 Altshuler, I.S9-Fri-8:00 Amos, M.A.S26-Tue-8:00 Anderson, E.S1-Tue-3:40 / S1-Tue-4:40 PH-4 / TT-83 Anderson, K.PMEC-93 Anderton, J.B.PH-9 Andruchow, K.L.S12-Fri-8:40 S25-Tue-3:40 Anstead, A.M.S22-Wed-8:40 Antenucci, J.P.S1-Tue-5:00 Antunes, P.M.C.PMEC-87 Apfelbaum, S.I.S31-Wed-4:40 Aquilar, C.S32-Thu-3:40 Argyilan, A.S32-Thu-5:00 Argyilan, E.P.S33-Tue-9:00 Arhonditsis, G.B.S22-Wed-4:20 Armellin, A.S17-Fri-11:40 Armenio, P.HI-72 / PMEC-109 Arthur, C.D.PMEC-111 Auer, M.T.HI-70 Austin, J.S2-Tue-9:40 / S25-Tue-3:00 S7-Tue-3:40 / S4-Fri-10:40 PH-11 / BE-22 / TT-84 S16-Tue-4:40 HI-38 / PMEC-93 / PMEC-108 --- B --S17-Fri-10:40 / HI-54 S22-Wed-3:00 / S8-Wed-4:40 Bai, X.S3-Wed-3:00 / S3-Wed-4:40 PMEC-89 Baker, D.B.S16-Wed-9:00 Ball, G.S14-Wed-10:20 Ballard, K.M.S32-Fri-11:00 Ballard, M.M.S22-Wed-10:20 Barbiero, R.P.S9-Fri-9:00

Barrett, C.H.PMEC-87

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Basiliko, C.S11-Wed-4:20

S22-Thu-2:20

Boyer, G.	S16-Tue-2:40 / S16-Tue-3:00
	S16-Tue-3:40 / S22-Thu-9:40
	S27-Thu-10:00
Prodlaw I	
Bradley, L.	
	S16-Tue-2:20 / S16-Wed-2:00
	S32-Fri-10:20 / HI-39
Braig, E.C.	S32-Fri-9:00
Branson, D.R.	HI-61
Branstrator DK	S19-Thu-2:00 / BE-25
Braverman, C.	C21 Tree 9:00
	S16-Tue-2:20 / S16-Wed-2:00
Brennan, A.K.	
Brice, K.	S17-Fri-8:20
Bridgeman, T.	S22-Wed-2:40 / HI-69 / HI-72
0	PMEC-109
Briggs, T	
Driggs, I	S10 Tree 4:20
Bright, E	
Brody, E	
Bronte, C.R.	
Brooking, T.E	S18-Tue-2:20
	S24-Wed-10:00 / S24-Wed-10:20
	S24-Wed-10:40 / TT-81
Durant C I	
Brouder, M.J.	S30-Thu-2:40 / S30-Thu-4:40
Brousseau, C.M	S16-Wed-3:00 / BE-33
Brovold, S.	
Brown, C.	PMEC-88
Brown, H	
Brown, J.E	
Brown, T.N.	
Bruxer, J.K.	S5-Thu-2:40
Bryk, N.	S32-Fri-8:40
	S16-Tue-2:40 / S16-Tue-3:00
Duchobuuni, m	S16-Tue-3:40
Buckley, J.T.	
Duckley, J. I	
Bugliosi, E.F	
Bukata R P	
	S24-Wed-8:00 / TT-76 S36-Tue-3:00 / S8-Wed-3:40
Bullerjahn, G.S	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23
Bullerjahn, G.S	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23
Bullerjahn, G.S Bunnel, D	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00
Bullerjahn, G.S Bunnel, D	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S18-Tue-9:00 / S10-Tue-3:40
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Bullerjahn, G.S Bunnel, D Bunnell, D.B Burgoon, L Burlakova, L.E Burniston, D Burns, C.W Burton, A Butler, R.L Cabrera, A.R Cabrera, S.C	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S18-Tue-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20 C
Bullerjahn, G.S Bunnel, D Bunnell, D.B Burgoon, L Burlakova, L.E Burniston, D Burns, C.W Burton, A Butler, R.L Cabrera, A.R Cabrera, S.C Cagampan, S	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S18-Tue-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20 C
Bullerjahn, G.S Bunnel, D Bunnell, D.B Burgoon, L Burlakova, L.E Burniston, D Burns, C.W Burton, A Butler, R.L Cabrera, A.R Cabrera, S.C Cagampan, S Caldwell, C	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S18-Tue-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20 C
Bullerjahn, G.S. Bunnel, D. Burnoll, D.B. Burlakova, L.E. Burniston, D. Burns, C.W. Burton, A. Butler, R.L. Cabrera, A.R. Cadbrera, S.C. Cadwell, C. Caldwell, R.J.	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S18-Tue-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20 S15-Thu-4:00 PMEC-94 S13-Thu-10:20 S13-Thu-10:20 S5-Thu-2:20
Bullerjahn, G.S. Bunnel, D. Burnoll, D.B. Burlakova, L.E. Burniston, D. Burns, C.W. Burton, A. Butler, R.L. Cabrera, A.R. Cadbrera, S.C. Cadwell, C. Caldwell, R.J.	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S18-Tue-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20 S15-Thu-4:00 PMEC-94 S17-Fri-11:20 S15-Thu-2:20 S6-Tue-9:4 / S16-Tue-2:40
Bullerjahn, G.S. Bunnel, D. Burnoll, D.B. Burgoon, L. Burlakova, L.E. Burniston, D. Burns, C.W. Burton, A. Butler, R.L. Cabrera, A.R. Cabrera, S.C. Cadwell, C. Caldwell, R.J.	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S18-Tue-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20 C
Bullerjahn, G.S. Bunnel, D. Bunnell, D.B. Burgoon, L. Burlakova, L.E. Burniston, D. Burns, C.W. Burton, A. Butler, R.L. Cabrera, A.R. Cadbrera, S.C. Caldwell, C. Caldwell, R.J. Campbell, L.	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S18-Tue-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20
Bullerjahn, G.S. Bunnel, D. Bunnell, D.B. Burgoon, L. Burlakova, L.E. Burniston, D. Burns, C.W. Burton, A. Butler, R.L. Cabrera, A.R. Cadbrera, S.C. Cadwell, C. Caldwell, R.J. Campbell, T.B.	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S18-Tue-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20 S15-Thu-4:00 PMEC-94 S15-Thu-2:20 S5-Thu-2:20 S6-Tue-9:4 / S16-Tue-2:40 S16-Tue-3:00 / S16-Tue-3:40 S11-Wed-1:40 / S11-Wed-2:00
Bullerjahn, G.S. Bunnel, D. Bunnell, D.B. Burgoon, L. Burlakova, L.E. Burniston, D. Burns, C.W. Burton, A. Butler, R.L. Cabrera, A.R. Cadbrera, S.C. Cadwell, C. Caldwell, R.J. Campbell, T.B. Cangelosi, A.A.	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S1-Wed-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20
Bullerjahn, G.S. Bunnel, D. Bunnell, D.B. Burgoon, L. Burlakova, L.E. Burniston, D. Burns, C.W. Burton, A. Butler, R.L. Cabrera, A.R. Cadbrera, S.C. Cadwell, C. Caldwell, R.J. Campbell, T.B. Cangelosi, A.A. Cannon, W.F.	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S18-Tue-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20
Bullerjahn, G.S. Bunnel, D. Bunnell, D.B. Burgoon, L. Burlakova, L.E. Burniston, D. Burns, C.W. Burton, A. Butler, R.L. Cabrera, A.R. Cadbrera, S.C. Cadwell, C. Caldwell, R.J. Campbell, T.B. Cannon, W.F. Carambas, M.C.	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S18-Tue-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20
Bullerjahn, G.S. Bunnel, D. Bunnell, D.B. Burgoon, L. Burlakova, L.E. Burniston, D. Burns, C.W. Burton, A. Butler, R.L. Cabrera, A.R. Cadbrera, S.C. Cadwell, C. Caldwell, R.J. Campbell, T.B. Cannon, W.F. Carambas, M.C.	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S18-Tue-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20 S15-Thu-4:00 PMEC-94 S15-Thu-2:20 S6-Tue-9:4 / S16-Tue-2:40 S16-Tue-3:00 / S16-Tue-3:40 S28-Fri-8:40 / S28-Fri-9:40 PMEC-90 S36-Wed-9:00 S36-Wed-9:00 S13-Thu-8:20
Bullerjahn, G.S Bunnel, D Bunnell, D.B Burlakova, L.E Burniston, D Burns, C.W Burton, A Butler, R.L Cabrera, A.R Cabrera, S.C Cagampan, S Caldwell, C Caldwell, R.J Campbell, L Campbell, T.B Cangelosi, A.A Cargnelli, L Cargnelli, L Carlson Mazur, M.L.	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S1-Wed-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20 S15-Thu-4:00 PMEC-94 S17-Fri-11:20 S6-Tue-9:4 / S16-Tue-2:40 S16-Tue-3:00 / S16-Tue-3:40 S11-Wed-1:40 / S11-Wed-2:00 S28-Fri-8:40 / S28-Fri-9:40 PMEC-90 S36-Wed-9:00 S13-Thu-8:20 S14-Wed-10:00 / S16-Wed-10:00
Bullerjahn, G.S Bunnel, D Bunnell, D.B Burlakova, L.E Burniston, D Burns, C.W Burton, A Butler, R.L Cabrera, A.R Cabrera, S.C Cagampan, S Caldwell, C Caldwell, R.J Campbell, L Campbell, T.B Cangelosi, A.A Cargnelli, L Cargnelli, L Carlson Mazur, M.L.	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S1-Wed-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20 S15-Thu-4:00 PMEC-94 S17-Fri-11:20 S6-Tue-9:4 / S16-Tue-2:40 S16-Tue-3:00 / S16-Tue-3:40 S11-Wed-1:40 / S11-Wed-2:00 S28-Fri-8:40 / S28-Fri-9:40 PMEC-90 S36-Wed-9:00 S13-Thu-8:20 S14-Wed-10:00 / S16-Wed-10:00
Bullerjahn, G.S Bunnel, D Bunnell, D.B Burlakova, L.E Burniston, D Burns, C.W Burton, A Butler, R.L Cabrera, A.R Cabrera, S.C Cagampan, S Caldwell, C Caldwell, R.J Campbell, T.B Campbell, T.B Cangelosi, A.A Carlson Mazur, M.L. Carlson, T	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S18-Tue-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20 S15-Thu-4:00 PMEC-94 S17-Fri-11:20 S6-Tue-9:4 / S16-Tue-2:40 S16-Tue-3:00 / S16-Tue-3:40 S28-Fri-8:40 / S28-Fri-9:40 PMEC-90 S36-Wed-9:00 S34-Wed-1:0:00 / S16-Wed-10:00 S25-Tue-3:00 / PMEC-93
Bullerjahn, G.S Bunnel, D Bunnell, D.B Burlakova, L.E Burniston, D Burns, C.W Burton, A Butler, R.L Cabrera, A.R Cabrera, S.C Cagampan, S Caldwell, C Caldwell, R.J Campbell, T.B Campbell, T.B Cangelosi, A.A Carambas, M.C Carlson Mazur, M.L. Carlson, T Carmichael, T.J	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S18-Tue-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20 S15-Thu-4:00 PMEC-94 S17-Fri-11:20 S6-Tue-9:4 / S16-Tue-2:40 S16-Tue-3:00 / S16-Tue-3:40 S28-Fri-8:40 / S28-Fri-9:40 PMEC-90 S36-Wed-9:00 S34-Wed-1:0:00 / S16-Wed-10:00 S25-Tue-3:00 / PMEC-93 S39-Tue-8:40
Bullerjahn, G.S Bunnel, D Bunnell, D.B Burlakova, L.E Burniston, D Burns, C.W Burton, A Butler, R.L Cabrera, A.R Cabrera, S.C Cagampan, S Caldwell, C Caldwell, R.J Campbell, T.B Campbell, T.B Cangelosi, A.A Carlson Mazur, M.L. Carlson, T	S36-Tue-3:00 / S8-Wed-3:40 S8-Wed-4:00 / S8-Wed-5:00 / BE-23 S31-Wed-5:00 S18-Tue-9:00 / S10-Tue-3:40 S1-Wed-9:40 / S31-Wed-1:40 S10-Wed-4:20 / S12-Fri-8:20 S25-Tue-3:40 S22-Wed-3:00 / S19-Thu-2:40 S19-Thu-3:00 / S19-Thu-3:40 S17-Thu-5:00 S3-Wed-3:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 S27-Thu-10:20 S15-Thu-4:00 S15-Thu-4:00 S15-Thu-2:20 S6-Tue-9:4 / S16-Tue-2:40 S16-Tue-3:00 / S16-Tue-3:40 S11-Wed-1:40 / S11-Wed-2:00 S28-Fri-8:40 / S28-Fri-9:40 PMEC-90 S36-Wed-9:00 S13-Thu-8:20 S14-Wed-10:00 / S16-Wed-10:00 S29-Tue-8:40 S39-Tue-8:40 S39-Tue-8:40 S3-Wed-2:20

Casey, S	
Casper, G.S.	S30-Thu-4:20
Casselman, J.M.	
Catalano, M.J.	
Cha, Y	
Chadde, J.	S32-Thu-4:40
Chadderton, L.	S16-Tue-2:40 / S16-Tue-3:00
	C1C Tree 2:40
Chaffin, J.	522 Wed 2:40 / 111 60
Channi, J	
	PMEC-100 / PMEC-109
Chambers, M.	
Chang, F.C.	HI-44
Chapman, D	
Chapman, J.	\$15-Thu-1:40
Chapra, S.C	
	S22-Wed-9:00 / S22-Wed-1:40
Chase, M.	S30-Fri-8:00
Chen, D.	S17-Fri-9:20
Chen, H.	S24-Wed-8:20
Chen, Q.J.	
Cherkauer, K.A.	
Chiotti, J.	
Chiriboga, E.D.	TT-77
Chler, J.	
Chomicki, K.M.	\$16-Wed-1:40
	S13-Thu-8:00 / S12-Fri-9:20
Choung, Y	\$36-Tue-1:40
Chraibi, V.L.S.	
Chriscinske, M.A.	S10-Tue-3:40 / S12-Fri-8:20
Chu, C.	S10-Wed-4:40
Chu, S.G	
CID010W3KI, J	
	S16-Tue-2:40 / S16-Tue-3:00
	\$16-Tue-3:40 / \$16-Wed-2:00
	S39-Tue-8:20 / S30-Thu-3:40
	S39-Tue-8:20 / S30-Thu-3:40
Clark, E.J.	S39-Tue-8:20 / S30-Thu-3:40 HI-50
Clark, E.J Clark, G	S39-Tue-8:20 / S30-Thu-3:40 HI-50 S23-Wed-8:00 / S37-Thu-8:40
Clark, E.J Clark, G	S39-Tue-8:20 / S30-Thu-3:40 HI-50 S23-Wed-8:00 / S37-Thu-8:40 S32-Fri-11:00 / PH-6 / PMEC-106
Clark, E.J Clark, G Clark, M.G	S39-Tue-8:20 / S30-Thu-3:40 HI-50 S23-Wed-8:00 / S37-Thu-8:40 S32-Fri-11:00 / PH-6 / PMEC-106 S17-Fri-11:40
Clark, E.J Clark, G Clark, M.G Clement, T.A	S39-Tue-8:20 / S30-Thu-3:40 HI-50 S23-Wed-8:00 / S37-Thu-8:40 S32-Fri-11:00 / PH-6 / PMEC-106 S17-Fri-11:40 S10-Wed-5:00
Clark, E.J Clark, G Clark, M.G Clement, T.A Cline, T.J.	S39-Tue-8:20 / S30-Thu-3:40 HI-50 S23-Wed-8:00 / S37-Thu-8:40 S32-Fri-11:00 / PH-6 / PMEC-106 S17-Fri-11:40 S10-Wed-5:00 S19-Thu-9:40
Clark, E.J Clark, G Clark, M.G Clement, T.A	S39-Tue-8:20 / S30-Thu-3:40 HI-50 S23-Wed-8:00 / S37-Thu-8:40 S32-Fri-11:00 / PH-6 / PMEC-106 S17-Fri-11:40 S10-Wed-5:00 S19-Thu-9:40
Clark, E.J Clark, G Clark, M.G Clement, T.A Cline, T.J Clites, A.H	S39-Tue-8:20 / S30-Thu-3:40 HI-50 S23-Wed-8:00 / S37-Thu-8:40 S32-Fri-11:00 / PH-6 / PMEC-106 S17-Fri-11:40 S10-Wed-5:00 S19-Thu-9:40 PH-12
Clark, E.J Clark, G Clark, M.G Clement, T.A Cline, T.J Clites, A.H Coburn-Griffis, A	S39-Tue-8:20 / S30-Thu-3:40 HI-50 S23-Wed-8:00 / S37-Thu-8:40 S32-Fri-11:00 / PH-6 / PMEC-106 S17-Fri-11:40 S10-Wed-5:00 S19-Thu-9:40 PH-12 PMEC-105
Clark, E.J Clark, G Clark, M.G Clement, T.A Cline, T.J Clites, A.H Coburn-Griffis, A Cohen, A.S	S39-Tue-8:20 / S30-Thu-3:40 HI-50 S23-Wed-8:00 / S37-Thu-8:40 S32-Fri-11:00 / PH-6 / PMEC-106 S17-Fri-11:40 S10-Wed-5:00 S19-Thu-9:40 PH-12 PMEC-105 S29-Tue-3:00 / TT-85
Clark, E.J Clark, G Clark, M.G Clement, T.A Cline, T.J Clites, A.H Coburn-Griffis, A Cohen, A.S Coleman, J	S39-Tue-8:20 / S30-Thu-3:40 HI-50 S23-Wed-8:00 / S37-Thu-8:40 S32-Fri-11:00 / PH-6 / PMEC-106 S17-Fri-11:40 S10-Wed-5:00 S19-Thu-9:40 PH-12 PMEC-105 S29-Tue-3:00 / TT-85 S30-Fri-11:20
Clark, E.J Clark, G Clark, M.G Clement, T.A Cline, T.J Clites, A.H Coburn-Griffis, A Cohen, A.S Coleman, J Collins, N.C	.S39-Tue-8:20 / S30-Thu-3:40 .HI-50 .S23-Wed-8:00 / S37-Thu-8:40 S32-Fri-11:00 / PH-6 / PMEC-106 .S17-Fri-11:40 .S10-Wed-5:00 .S19-Thu-9:40 .PH-12 .PMEC-105 .S29-Tue-3:00 / TT-85 .S30-Fri-11:20 .S39-Tue-2:20
Clark, E.J Clark, G Clark, M.G Clement, T.A Cline, T.J Clites, A.H Coburn-Griffis, A Cohen, A.S Coleman, J Collins, N.C Colton, M	.S39-Tue-8:20 / S30-Thu-3:40 .HI-50 .S23-Wed-8:00 / S37-Thu-8:40 S32-Fri-11:00 / PH-6 / PMEC-106 .S17-Fri-11:40 .S10-Wed-5:00 .S19-Thu-9:40 .PH-12 .PMEC-105 .S29-Tue-3:00 / TT-85 .S30-Fri-11:20 .S39-Tue-2:20 .S3-Wed-3:00 / S3-Wed-4:00
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Clark, E.J Clark, G Clark, G Clement, T.A Cline, T.J Colites, A.H Coburn-Griffis, A Cohen, A.S Coleman, J Colins, N.C Colton, M Confesor, R.B Confesor, R.B Conn, D.B Connerton, M.J Conroy, J.D Constant, S Cooper, M.J Corstum, L.D Corst, S.R Cotter, A.M Coulter, D.P Craddock, M.L Craddock, M.L Craddock, M.L Crawford, E Creech, C.T Criger, L.A Crimmins, B	.S39-Tue-8:20 / S30-Thu-3:40 .HI-50 .S23-Wed-8:00 / S37-Thu-8:40 S32-Fri-11:00 / PH-6 / PMEC-106 .S17-Fri-11:40 .S10-Wed-5:00 .S19-Thu-9:40 .PH-12 .PMEC-105 .S29-Tue-3:00 / TT-85 .S30-Fri-11:20 .S39-Tue-2:20 .S3-Wed-3:00 / S3-Wed-4:00 S27-Thu-8:00 .S16-Wed-9:00 .S16-Wed-9:00 .S19-Thu-3:40 .S22-Wed-2:20 / S22-Wed-3:00 .S27-Thu-9:00 .S15-Thu-2:20 / S15-Thu-2:40 S15-Thu-3:40 / S15-Thu-4:40 .S11-Wed-5:00 .HI-41 / HI-42 .S23-Wed-9:00 .S16-Tue-4:20 / S16-Wed-8:40 S10-Wed-4:00 .S13-Thu-9:00 / S13-Thu-9:40 .S13-Thu-9:00 / S13-Thu-2:00 .S36-Tue-4:20 .S16-Wed-2:40 / S30-Fri-9:40 .S19-Thu-9:00 .S17-Fri-8:40 / S17-Fri-10:40 HI-44 / HI-45 / HI-55
Clark, E.J Clark, G Clark, G Clement, T.A Cline, T.J Colites, A.H Coburn-Griffis, A Cohen, A.S Coleman, J Collins, N.C Colton, M Confesor, R.B Conn, D.B Connerton, M.J Conroy, J.D Conroy, J.D Constant, S Cooper, M.J Corstant, S Corry, T.D Corsi, S.R Cotter, A.M Coulter, D.P Craddock, M.L Craig, J.M S13-Thu-10:00 Crawford, E Criger, L.A Crimmins, B	.S39-Tue-8:20 / S30-Thu-3:40 .HI-50 .S23-Wed-8:00 / S37-Thu-8:40 S32-Fri-11:00 / PH-6 / PMEC-106 .S17-Fri-11:40 .S10-Wed-5:00 .S19-Thu-9:40 .PH-12 .PMEC-105 .S29-Tue-3:00 / TT-85 .S30-Fri-11:20 .S39-Tue-2:20 .S3-Wed-3:00 / S3-Wed-4:00 S27-Thu-8:00 .S16-Wed-9:00 .S16-Wed-9:00 .S19-Thu-3:40 .S22-Wed-2:20 / S22-Wed-3:00 .S27-Thu-9:00 .S15-Thu-2:20 / S15-Thu-2:40 S15-Thu-3:40 / S15-Thu-4:40 .S11-Wed-5:00 .HI-41 / HI-42 .S23-Wed-9:00 .S16-Tue-4:20 / S16-Wed-8:40 S10-Wed-4:00 .S13-Thu-9:00 / S13-Thu-9:40 .S13-Thu-9:00 / S13-Thu-2:00 .S36-Tue-4:20 .S16-Wed-2:40 / S30-Fri-9:40 .S19-Thu-9:00 .S17-Fri-8:40 / S17-Fri-10:40 HI-44 / HI-45 / HI-55

Cyr, H.S16-Wed-2:20 Czech, M.PMEC-104 Czesny, S.J.S39-Tue-9:00 / S10-Wed-3:40 Czypinski, G.D.HI-62 ----- D ---Da Silva, S.E.S32-Thu-2:00 Damstra, V.A.S30-Fri-9:20 Dann, S.S32-Thu-4:40 S14-Wed-8:40 / PMEC-108 Davis, T.W.S36-Tue-2:20 Dawson, F.N.S30-Fri-10:40 Day, J.S35-Wed-4:40 Deadman, P.J.S15-Thu-4:00 DeGuire, L.S31-Wed-4:20 Depetro, P.A.HI-70 S1-Wed-9:00 / S22-Wed-4:00 S22-Thu-8:00 / S27-Thu-8:00 S15-Thu-3:00 DeSolla, S.R.HI-51 Desotelle, D.PMEC-95 Dietz, T.S35-Wed-5:00 Dila, D.K.S16-Wed-9:40 Dinse, K.S32-Thu-1:40 Distler, M.T.BE-35 S36-Wed-9:40 Docherty, K.S.HI-66 Dokulil, M.S4-Fri-11:20 / S4-Fri-11:40 S22-Wed-8:40 / S22-Wed-9:00 S22-Wed-1:40 / S22-Wed-3:40 S22-Thu-8:40 Dolor, M.PMEC-106 Donald, K.A.L.S13-Thu-3:40 Doolittle, A.G.S16-Wed-3:00 S16-Tue-3:40 S33-Tue-8:40 Doucette, J.S.S1-Wed-8:00 Douglas, A.G.S35-Wed-4:00 Droppo, I.G.S1-Wed-8:20 Drumm, M.S32-Fri-8:40 Dryer, P.J.S30-Thu-4:00 Dryfhout-Clark, H.S17-Fri-8:20

Dsouza, N.A.S23-Wed-10:40 Du, M.S29-Tue-1:40 Dufour, M.R.TT-79 PMEC-110 Durham, J.HI-49 Duris, J.W.S23-Wed-9:00 / HI-73 Duval, T.B.S36-Tue-4:00 Dyble-Bressie, J.A.S22-Thu-10:40 Dykstra, C.R.HI-53 ----- F --Ebener, M.S30-Thu-3:40 / S12-Fri-10:40 Eberhardt, L.S33-Tue-9:00 Eberhardt, R.S30-Thu-1:40 Eccelstone, A.S30-Thu-2:00 Eckert, W.PH-10 Eckman, K.S32-Fri-10:20 S16-Tue-3:40 Edgar, R.S8-Wed-4:00 / BE-19 Edgington, D.N.BE-15 Edlund, M.B.S10-Wed-3:00 / HI-64 Effler, S.W.S24-Wed-8:20 / S24-Wed-1:40 Eichmiller, J.J.S23-Wed-9:40 Ellen, M.E.S18-Tue-8:00 El-Shaarawi, A.BE-26 Emery, B.S1-Wed-10:20 TT-81 Engevold, P.M.BE-27 Erickson, J.M.HI-38 Eshenroder, R.L.S12-Fri-8:00 Evans, B.I.S10-Tue-4:00 Evans, M.A.S18-Tue-8:20 Evans, M.S.S17-Fri-11:40 Ewing, D.E.S16-Wed-9:00 ----- F ---S18-Tue-9:00 / HI-71 Faisal, M.S36-Tue-4:20 Famiglietti, J.S.S3-Thu-8:20 Fan, Y.S5-Thu-2:20 BE-35 HI-58 Faveri, G.PMEC-107 Fedora, M.S30-Thu-5:00 Ferreira, D.PMEC-88 Fetzer, W.W.S18-Tue-2:20 S13-Thu-8:00 Fietsche, C.BE-32 Finlay, J.S22-Thu-1:40 / S22-Thu-2:00 Finlayson, P.H.S30-Thu-8:00 Fischer, A.S11-Wed-4:20 Fisher, H.S30-Thu-10:20 Fitzpatrick, F.S16-Wed-10:00 / S30-Thu-5:00 Fitzpatrick, M.S10-Tue-2:40 / S10-Wed-2:40 BE-26 Florence, L.W.PMEC-96 Fofonoff, P.S28-Fri-8:20

Fogarty, L.	
10841(),21	S31_Wed_4.00 / HI_73
Folow C I	S31-Wed-4:00 / HI-73 PH-5 / BE-28
Forsyth, D.	S25 Wed 4.40
Fortin, V.	
Fortner, R.	\$32-Thu-3:40 / \$32-Fri-8:00
	S32-Fri-8:20 / PMEC-97
Fram, J.P.	
Francis, J.	
Francy, D.S.	S23-Wed-9:00
Frazier, M.R.	S28-Fri-8:20
Friday, M.J.	
Fry, L.M	
Fryer, B	\$19-Thu-10.00
Fuchsman, P.	PMFC-87
Fujisaki, A.	
Fusaro, A.	
	G
	-
Gabriel, T.G.	
Gamble, A.E.	S12-Fri-11:00
Ganger, M.T.	S11-Wed-3:40
	S36-Wed-10:20 / S28-Fri-8:00
Gardner, W.	\$30-Thu-2.00
Garrison, P.J.	\$31-Wed-2:40
Gathman, J.P.	
Gaugush, R.F.	
Gauthier, L.T	
Gaylo, M.J.	
Gehring, T.M.	BE-37
Gerace, A.D.	S24-Wed-9:00
Gerhards, R	
Gerlofsma, J.	
Gertzen, E.L.	
	S17-Fri-11:40 / HI-46
Giesy, J.P.	
Glase, J.	
Glass, W.	S11-Wed-5:00
Glassner-Shwayder, K.	S32-Thu-2:20
Gledhill, M.	S17-Fri-11:40
Gnatovsky, R.Y.	
Gobler, C.J.	\$36_Tue_2.20
Codby N	612 The 9.00
Godby, N.	
Goettel, R.G.	\$32-Fri-9:20 / PMEC-94
	PMEC-101 / PMEC-102
Gogineni, P	PMEC-103
Goldsborough, L.G	S14-Wed-10:20
Golnick, P.	PMEC-104
Gomes, G.	S30-Thu-9:00
Gordon, D.	
	S10-Tue-2:20 / S12-Fri-11:00
Gorman, O. I	BE-30
Cata D	
Goto, D.	
Gou, J	
Goyne, T.	
Grabas, G.P.	S14-Wed-8:00
Grabusky, J.	S17-Fri-11:20
Granados, M	S13-Thu-2:20
Granneman, N	
Greb S R	\$24-Wed-1:40 / \$31-Wed-2:40
TT-84	
	C10 Tree 0/40 / C04 M7 1 10 40
Green, S	
	TT-78 / TT-81
Greenberg, T.A.	S24-Wed-8:00 / TT-76
Greene, K.E.	HI-50
	S13-Thu-8:00 / S30-Thu-1:40
	\$30-Thu-2:20
Gribskov, M.	HI-65
Griesmer, D.	
Griggs, N.D.	PMEC-104

Grim, L	
Gronewold, A.D	\$5-Thu-10:20 / \$5-Thu-2:00
	PH-12 / HI-74
Grubb, T.G	
Grush, J	
Gudimov, A	S22-Wed-4:20
Guildford, S.J	S10-Tue-1:40 / S10-Tue-2:00
	S22-Thu-10:00 / BE-17 / BE-31
Gulka, A	
Gumtow, C	
Gunawan, A.A.	
Guo, Y	
Guzzo, M	S19-Thu-8:20
Gyawali, R	S5-Thu-1:40
	H
	\$23-Wed-9:00 / \$31-Wed-1:40
Hagar, J.M.	
Hagley, C.	\$25-Tue-3:00 / \$32-Thu-3:40
	TT-82 / PMEC-93 / PMEC-95
** • • • • • • • •	PMEC-96 / PMEC-108
Hajduk, M.M.	
Hakobyan, S	
Hallesy, T.	S32-Fri-9:20 / PMEC-94
	PMEC-102
Halpern, B	
	S16-Tue-3:40
Halpin, K.	
	S24-Wed-2:20 / PH-10
Hampton, S.E	
	\$3-Thu-8:00 / TT-80
Hansen, S.	
Hanson, D.	
	\$39-Tue-10:00 / \$13-Thu-2:40
Hargan, K.E	
Harke, M.H.	
Harrison, J.W.	BE-20
Hart, D	\$25-Tue-4:00 / \$32-Fri-11:00
	PMEC-96 / PMEC-106 / TT-82
	PMEC-108
Hatt, C	
Healey, N.C.	
Heath, R	\$36-Wed-10:00 / \$8-Wed-4:20
	S8-Wed-4:40
Hebert, C.E.	
Heckathorn, S	HI-69 HI-72 / PMEC-109
Hecky, R.E	\$25-Tue-1:40 / \$10-Tue-1:40
	S10-Tue-2:00 / S29-Tue-2:40
	S25-Tue-3:00 / S1-Tue-5:00
II OI	S22-Thu-10:00 / BE-17 / BE-31
Hecnar, S.J.	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20
Hedstrom, N	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00
Hedstrom, N Held, R	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S35-Wed-4:40
Hedstrom, N Held, R Henneck, J.H	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S35-Wed-4:40 S25-Tue-3:00
Hedstrom, N Held, R Henneck, J.H Henneck, J.R	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S35-Wed-4:40 S25-Tue-3:00 S16-Tue-4:40 / PMEC-93
Hedstrom, N Held, R Henneck, J.H Henneck, J.R Henning, M.H	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S35-Wed-4:40 S25-Tue-3:00 S16-Tue-4:40 / PMEC-93 PMEC-87
Hedstrom, N Held, R Henneck, J.H Henneck, J.R Henning, M.H Henquenet, J	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S35-Wed-4:40 S25-Tue-3:00 S16-Tue-4:40 / PMEC-93 PMEC-87 S28-Fri-9:20
Hedstrom, N Held, R Henneck, J.H Henneck, J.R Henning, M.H Henquenet, J Hernandez, M.M	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S35-Wed-4:40 S25-Tue-3:00 S16-Tue-4:40 / PMEC-93 PMEC-87 S28-Fri-9:20 S22-Thu-9:40
Hedstrom, N Held, R Henneck, J.H Hennick, J.R Henning, M.H Henquenet, J Hernandez, M.M Herrera, L.S	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S35-Wed-4:40 S25-Tue-3:00 S16-Tue-4:40 / PMEC-93 PMEC-87 S28-Fri-9:20 S22-Thu-9:40 HI-39
Hedstrom, N Held, R Henneck, J.H Hennick, J.R Henning, M.H Henquenet, J Hernandez, M.M Herrera, L.S Hickey, M.B.C	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S35-Wed-4:40 S25-Tue-3:00 S16-Tue-4:40 / PMEC-93 PMEC-87 S28-Fri-9:20 S22-Thu-9:40 HI-39 S21-Tue-8:40
Hedstrom, N Held, R Henneck, J.H Hennick, J.R Henning, M.H Henquenet, J Hernandez, M.M Herrera, L.S Hickey, M.B.C	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S35-Wed-4:40 S25-Tue-3:00 S16-Tue-4:40 / PMEC-93 PMEC-87 S28-Fri-9:20 S22-Thu-9:40 HI-39 S21-Tue-8:40 S29-Tue-2:00 / S23-Wed-8:20
Hedstrom, N Held, R Henneck, J.H Hennick, J.R Henning, M.H Henquenet, J Hernandez, M.M Herrera, L.S Hickey, M.B.C	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S35-Wed-4:40 S25-Tue-3:00 S16-Tue-4:40 / PMEC-93 PMEC-87 S28-Fri-9:20 S22-Thu-9:40 HI-39 S21-Tue-8:40 S29-Tue-2:00 / S23-Wed-8:20 S23-Wed-8:40 / S23-Wed-9:40
Hedstrom, N Held, R Henneck, J.H Hennick, J.R Henning, M.H Henquenet, J Hernandez, M.M Herrera, L.S Hickey, M.B.C Hicks, R.E.	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S5-Wed-4:40 S25-Tue-3:00 S16-Tue-4:40 / PMEC-93 PMEC-87 S28-Fri-9:20 S22-Thu-9:40 HI-39 S21-Tue-8:40 S29-Tue-2:00 / S23-Wed-8:20 S23-Wed-8:40 / S23-Wed-9:40 S23-Wed-10:00 / BE-18 / HI-75
Hedstrom, N Held, R Henneck, J.H Hennick, J.R Henning, M.H Herquenet, J Herrandez, M.M Herrera, L.S Hickey, M.B.C Hicks, R.E. Hill, B	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S5-Wed-4:40 S25-Tue-3:00 S16-Tue-4:40 / PMEC-93 PMEC-87 S28-Fri-9:20 S22-Thu-9:40 HI-39 S21-Tue-8:40 S29-Tue-2:00 / S23-Wed-8:20 S23-Wed-8:40 / S23-Wed-9:40 S23-Wed-10:00 / BE-18 / HI-75 S27-Thu-10:20
Hedstrom, N Held, R Henneck, J.H Henning, M.H Henquenet, J Hernandez, M.M Herrera, L.S Hickey, M.B.C Hicks, R.E. Hill, B Hinderer, J.M	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S5-Wed-4:40 S25-Tue-3:00 S16-Tue-4:40 / PMEC-93 PMEC-87 S28-Fri-9:20 S22-Thu-9:40 HI-39 S21-Tue-8:40 S29-Tue-2:00 / S23-Wed-8:20 S23-Wed-8:40 / S23-Wed-9:40 S23-Wed-10:00 / BE-18 / HI-75 S27-Thu-10:20 S32-Thu-2:20
Hedstrom, N Held, R Henneck, J.H Henneck, J.R Henning, M.H Hernandez, M.M Herrera, L.S Hickey, M.B.C Hicks, R.E. Hill, B Hinderer, J.M. Hinkel, K.M.	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S5-Wed-4:40 S25-Tue-3:00 S16-Tue-4:40 / PMEC-93 PMEC-87 S28-Fri-9:20 S22-Thu-9:40 HI-39 S21-Tue-8:40 S29-Tue-2:00 / S23-Wed-8:20 S23-Wed-8:40 / S23-Wed-9:40 S23-Wed-8:40 / S23-Wed-9:40 S23-Wed-10:00 / BE-18 / HI-75 S27-Thu-10:20 S32-Thu-2:20 S1-Wed-10:00
Hedstrom, N Held, R Henneck, J.H Henneck, J.R Henning, M.H Hernandez, M.M Herrera, L.S Hickey, M.B.C Hicks, R.E Hinke, K.M Hinkel, K.M	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S5-Thu-10:00 S35-Wed-4:40 S25-Tue-3:00 S16-Tue-4:40 / PMEC-93 PMEC-87 S28-Fri-9:20 S22-Thu-9:40 HI-39 S21-Tue-8:40 S29-Tue-2:00 / S23-Wed-8:20 S23-Wed-8:40 / S23-Wed-8:20 S23-Wed-8:40 / S23-Wed-9:40 S23-Wed-10:00 / BE-18 / HI-75 S27-Thu-10:20 S32-Thu-2:20 S1-Wed-10:00 S18-Tue-4:20
Hedstrom, N Held, R Henneck, J.H Henneck, J.R Henning, M.H Hernandez, M.M Herrera, L.S Hickey, M.B.C Hicks, R.E Hinderer, J.M Hinderer, J.M Hinkel, K.M Hitss, R	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S5-Thu-10:00 S35-Wed-4:40 S25-Tue-3:00 S16-Tue-4:40 / PMEC-93 PMEC-87 S28-Fri-9:20 S22-Thu-9:40 HI-39 S21-Tue-8:40 S29-Tue-2:00 / S23-Wed-8:20 S23-Wed-8:40 / S23-Wed-8:20 S23-Wed-8:40 / S23-Wed-9:40 S23-Wed-10:00 / BE-18 / HI-75 S27-Thu-10:20 S32-Thu-2:20 S1-Wed-10:00 S18-Tue-4:20 S17-Fri-8:20 / S17-Fri-10:20
Hedstrom, N Held, R Henneck, J.H Henneck, J.R Henning, M.H Hernandez, M.M Herrera, L.S Hickey, M.B.C Hicks, R.E Hinderer, J.M Hinderer, J.M Hinkel, K.M Hites, R Hites, R Hladyniuk, R	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S5-Thu-10:00 S35-Wed-4:40 S25-Tue-3:00 S16-Tue-4:40 / PMEC-93 PMEC-87 S28-Fri-9:20 S22-Thu-9:40 HI-39 S21-Tue-8:40 S29-Tue-2:00 / S23-Wed-8:20 S23-Wed-8:40 / S23-Wed-9:40 S23-Wed-10:00 / BE-18 / HI-75 S27-Thu-10:20 S32-Thu-2:20 S1-Wed-10:00 S18-Tue-4:20 S17-Fri-8:20 / S17-Fri-10:20 TT-86
Hedstrom, N Held, R Henneck, J.H Henneck, J.R Henning, M.H Hernandez, M.M Herrera, L.S Hickey, M.B.C Hicks, R.E Hinderer, J.M Hinderer, J.M Hinkel, K.M Hitss, R	S22-Thu-10:00 / BE-17 / BE-31 S30-Thu-4:20 S5-Thu-10:00 S5-Thu-10:00 S35-Wed-4:40 S25-Tue-3:00 S16-Tue-4:40 / PMEC-93 PMEC-87 S28-Fri-9:20 S22-Thu-9:40 HI-39 S21-Tue-8:40 S29-Tue-2:00 / S23-Wed-8:20 S23-Wed-8:40 / S23-Wed-9:40 S23-Wed-10:00 / BE-18 / HI-75 S27-Thu-10:20 S32-Thu-2:20 S1-Wed-10:00 S18-Tue-4:20 S17-Fri-8:20 / S17-Fri-10:20 TT-86 S37-Thu-10:00

S19-Thu-4:20 / HI-41 Hohoff, T.S3-Wed-2:40 Holeck, K.T.S10-Wed-2:20 / S9-Fri-9:40 Holem, R.R.HI-47 S16-Tue-4:20 Hollweg, T.A.PMEC-92 HI-45 / HI-55 S13-Thu-10:20 PH-2 Honeyfield, D.S39-Tue-2:00 Hook, S.J.S4-Fri-8:00 S10-Tue-4:40 / S10-Wed-1:40 PH-5 / BE-28 / HI-59 / HI-65 HI-44 / HI-45 / HI-55 Hornbuckle, K.C.S17-Thu-4:00 / S17-Thu-4:20 S17-Thu-4:40 / S17-Fri-8:00 HI-52 / HI-56 Horns, W.H.S19-Thu-5:00 S25-Tue-3:00 / S16-Tue-4:40 HI-38 / PMEC-93 / PMEC-108 S16-Wed-1:40 BE-25 / BE-30 Hu, H.S3-Wed-5:00 / PH-7 S30-Fri-9:20 Hunter, T.S5-Thu-10:20 / S5-Thu-2:00 PH-12 Hutchinson, L.S32-Fri-8:40 Hutton, M.S13-Thu-10:20 Huttula, T.S4-Fri-8:40 Hyde, R.S36-Wed-8:20 ____ _ S16-Tue-3:40 Irmak, A.S1-Wed-10:00 Isaac, E.J.S12-Fri-11:00 Isaacs-Cosgrove, N.S23-Wed-9:00 / HI-73 Ivanov, V.G.S1-Wed-10:40 _____J -Jablonski, V.HI-62 Jackson, P.R.S31-Wed-2:20

Jahnke, M.S33-Tue-9:20 Janik, C.E.S11-Wed-2:20 / S11-Wed-2:40 Jannash, A.HI-65 Jantunen, L.S17-Fri-8:20 Januska, B.PMEC-103 Jaoui, M.HI-66 Jenderedjian, K.S6-Tue-8:40 Jensen, D.A.S32-Thu-2:40 / S32-Thu-3:00 Jensen, O.P.S6-Tue-9:00 / S3-Wed-2:00 HI-40 / PMEC-89 Jessee, N.L.S24-Wed-10:40 / TT-81 Johengen, T.S24-Wed-8:40 Johnk, K.S4-Fri-11:00 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 / S16-Wed-2:00 HI-38 Johnson, N.W.HI-57 Johnson, R.D.HI-67 Johnson, T.B.S19-Thu-8:20 BE-16 Johnston, C.A.S14-Wed-9:00 Jones, E.K.HI-70 Jones, G.E.HI-50 Jones, M.L.S12-Fri-9:00 Jones, S.L.S1-Wed-10:00 / PH-3 Jovanovic, C.M.S10-Tue-5:00 Jude, D.J.S10-Wed-3:00 Just, A.HI-41 ----- К --PMEC-94 PMEC-104 / PMEC-105 Kannappan, V.HI-74 Kao, Y.S18-Tue-3:40 HI-58 Karatayev, A.E.S19-Thu-3:40 S19-Thu-3:00 Kashian, D.HI-74 Katich, S.S35-Wed-4:40 Katsev, S.S22-Thu-2:00 Katz, S.L.S4-Fri-8:20 Kawarasaki, Y.S23-Wed-10:40 Kay, D.P.HI-47 Keeler, K.M.S10-Tue-3:40 Kelch, D.O.S32-Fri-9:00 Kelly, J.R.S16-Tue-4:20 / S16-Wed-8:40 S16-Wed-10:20 / S16-Wed-10:40 S19-Thu-4:20 / HI-42 / HI-43 Kelly, T.PMEC-99 S13-Thu-10:20 / S13-Thu-2:00 S13-Thu-3:40

Kenow, K	
	S31-Wed-4:00
Kephart, C.M.	\$23-Wed-9.00
	TT 70
Kerfoot, C.W.	
	S18-Tue-8:40 / S18-Tue-10:00
	S24-Wed-10:40 TT-81
Kerimoglu, O	S4 Eri 11:00
Kerninogiu, O	
Key, R	
Kierkegaard, A	HI-49
Kim, K	
Kim, R	
Kimbrough, K.L	S21-Tue-8:20
Kireta, A.R.	\$30-Thu-8.20
	C10 The 0.40
Kitchell, J.F.	
Kitson, M.T.	S32-Thu-2:40 / S32-Thu-3:00
Klawunn P	S27-Thu-10:20 / S17-Thu-5:00
Kleindienst, T.E.	
Kleist, C.	S25-Tue-3:00 / PMEC-93
Klindt, R.M.	S13-Thu-4:20
	S22-Thu-10:20 / S9-Fri-8:20
Kiiiig, 11	
	BE-26
Klump, J.V.	S22-Thu-8:40 / S22-Thu-9:00
1	BE-15 S19-Thu-8:40 / BE-21 / TT-79
косоvsку, Р.М	
Kohlhepp, G.W.	S31-Wed-2:00
Kohls, A.	PMFC-105
Kondabolu, S	
Konefal-Herrgesell, M.	S17-Fri-11:40
Konopko, E	S27-Thu-10:00
Koopca IE	S33-Tue-8:00 / S33-Tue-8:20
Koonce, J.1	
	S33-Tue-8:40
Koops, M.A.	S11-Wed-3:00 / S10-Wed-4:40
Korytny, L.M.	\$6-Tue-8.00
Kotilainen, P	
Kowalski, K.P.	S14-Wed-10:00 / S16-Wed-10:00
	S24-Wed-10:00
Kraemer, B.M.	
Krakauer, N.Y.	
Kramer, I.	S16-Wed-9:00 / S22-Wed-3:00
Kranendonk, L.A	
Kraus, R.T.	
Kravtsov, S.V.	S3-Thu-8:00 / TT-80
	S21-Tue-9:00 / S22-Wed-8:40
Kitis, K	
	S22-Wed-3:40 / S31-Wed-5:00
	011 // ed 0/10 / 001 // ed 0/00
Kroeker, D.S.	
Kroeker, D.S	S14-Wed-10:40
Krueger, C.K	S14-Wed-10:40 S12-Fri-10:20
Krueger, C.K Kruger, B.R	S14-Wed-10:40 S12-Fri-10:20 BE-16
Krueger, C.K Kruger, B.R Krumenaker, R.J	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6
Krueger, C.K Kruger, B.R Krumenaker, R.J	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T.	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T.	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A Lafrancois, B	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A Lafrancois, B Lakes, R	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 L
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A Lafrancois, B Lakes, R LaLone, C.A	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 L
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A Lafrancois, B Lakes, R	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 L
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A Lafrancois, B Lakes, R LaLone, C.A Lamb, K.G	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 L
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A Lafrancois, B Lakes, R LaLone, C.A Lamb, K.G Lambert, R.S	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A Lafrancois, B Lakes, R LaLone, C.A Lamb, K.G Lambert, R.S Lane, H	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 S31-Wed-4:00 / S31-Wed-4:20 PMEC-105 S25-Tue-3:40 PH-1 HI-70 S27-Thu-9:00
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A Lafrancois, B Lafrancois, B Lakes, R LaLone, C.A Lamb, K.G Lambert, R.S Lane, H Lang, G	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 S31-Wed-4:00 / S31-Wed-4:20 PMEC-105 S25-Tue-3:40 PH-1 HI-70 S27-Thu-9:00 S1-Tue-3:40
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A Lafrancois, B Lafrancois, B Lakes, R LaLone, C.A Lamb, K.G Lambert, R.S Lane, H Lang, G	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 S31-Wed-4:00 / S31-Wed-4:20 PMEC-105 S25-Tue-3:40 PH-1 HI-70 S27-Thu-9:00 S1-Tue-3:40
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A Lafrancois, B Lafrancois, B Lakes, R LaLone, C.A Lambert, R.S Lane, H Lane, G Lansing, M	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 S31-Wed-4:00 / S31-Wed-4:20 PMEC-105 S25-Tue-3:40 PH-1 HI-70 S27-Thu-9:00 S1-Tue-3:40 S32-Fri-8:40
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A Lafrancois, B Lafrancois, B Lakes, R LaLone, C.A Lambert, R.S Lambert, R.S Lane, H Lansing, M Lantry, B	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 S31-Wed-4:00 / S31-Wed-4:20 PMEC-105 S25-Tue-3:40 PH-1 HI-70 S27-Thu-9:00 S1-Tue-3:40 S32-Fri-8:40 S19-Thu-10:40 / S12-Fri-8:00
Krueger, C.K	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 S31-Wed-4:00 / S31-Wed-4:20 PMEC-105 S25-Tue-3:40 PH-1 HI-70 S27-Thu-9:00 S1-Tue-3:40 S32-Fri-8:40 S19-Thu-10:40 / S12-Fri-8:00 S9-Fri-9:40
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A Lafrancois, B Lafrancois, B Lakes, R LaLone, C.A Lambert, R.S Lambert, R.S Lane, H Lansing, M Lantry, B	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 S31-Wed-4:00 / S31-Wed-4:20 PMEC-105 S25-Tue-3:40 PH-1 HI-70 S27-Thu-9:00 S1-Tue-3:40 S32-Fri-8:40 S19-Thu-10:40 / S12-Fri-8:00 S9-Fri-9:40
Krueger, C.K	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 S31-Wed-4:00 / S31-Wed-4:20 PMEC-105 S25-Tue-3:40 PH-1 HI-70 S27-Thu-9:00 S1-Tue-3:40 S32-Fri-8:40 S19-Thu-10:40 / S12-Fri-8:00 S9-Fri-9:40 S13-Thu-4:20
Krueger, C.K	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 S31-Wed-4:00 / S31-Wed-4:20 PMEC-105 S25-Tue-3:40 PH-1 HI-70 S27-Thu-9:00 S1-Tue-3:40 S32-Fri-8:40 S19-Thu-10:40 / S12-Fri-8:00 S9-Fri-9:40 S13-Thu-4:20 S30-Thu-9:00
Krueger, C.K Kruger, B.R Kuhaneck, R. J Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A Lafrancois, B Lakes, R Lakes, R Lalone, C.A Lamb, K.G Lambert, R.S Lane, H Lang, G Lansing, M Lantry, B LaPlante, E.V	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 S31-Wed-4:00 / S31-Wed-4:20 PMEC-105 S25-Tue-3:40 PH-1 HI-70 S27-Thu-9:00 S12-Fri-8:40 S19-Thu-10:40 / S12-Fri-8:00 S9-Fri-9:40 S13-Thu-4:20 S30-Thu-8:00 / S30-Thu-9:00 S30-Thu-1:40 / PMEC-89
Krueger, C.K	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 S8-Wed-3:40 S25-Tue-3:40 PMEC-105 S25-Tue-3:40 S27-Thu-9:00 S1-Tue-3:40 S27-Thu-9:00 S1-Tue-3:40 S29-Fri-8:40 S19-Thu-10:40 / S12-Fri-8:00 S9-Fri-9:40 S13-Thu-4:20 S30-Thu-8:00 / S30-Thu-9:00 S30-Thu-1:40 / PMEC-89 PMEC-96
Krueger, C.K	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 S8-Wed-3:40 S25-Tue-3:40 PMEC-105 S25-Tue-3:40 S27-Thu-9:00 S1-Tue-3:40 S27-Thu-9:00 S1-Tue-3:40 S29-Fri-8:40 S19-Thu-10:40 / S12-Fri-8:00 S9-Fri-9:40 S13-Thu-4:20 S30-Thu-8:00 / S30-Thu-9:00 S30-Thu-1:40 / PMEC-89 PMEC-96
Krueger, C.K Kruger, B.R Krumenaker, R.J Kuhaneck, R Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A Lafrancois, B Lafrancois, B Lang, C.A Lambert, R.S Lang, G Lang, G Lantry, B Laplante, E.V Laporte, E.A Larson, D	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 PMEC-105 S25-Tue-3:40 PH-1 HI-70 S27-Thu-9:00 S1-Tue-3:40 S12-Fri-8:40 S19-Thu-10:40 / S12-Fri-8:00 S9-Fri-9:40 S13-Thu-4:20 S30-Thu-4:20 S30-Thu-8:00 / S30-Thu-9:00 S30-Thu-1:40 / PMEC-89 PMEC-96 S13-Thu-10:40 / BE-34
Krueger, C.K Kruger, B.R Kuhaneck, R. J Kuhn, M.T Kunicki, T.C Kuo, I Kutovaya, O.A Lafrancois, B Lafrancois, B Lakes, R Lahes, R Lamb, K.G Lambert, R.S Lane, H Lang, G Lansing, M Lantry, B Laplant, S.R LaPlante, E.V Laporte, E.A Larson, D Larson, J	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 PMEC-105 S25-Tue-3:40 PH-1 HI-70 S27-Thu-9:00 S12-Fri-8:40 S19-Thu-10:40 / S12-Fri-8:00 S9-Fri-9:40 S13-Thu-4:20 S30-Thu-8:00 / S30-Thu-9:00 S30-Thu-1:40 / PMEC-89 PMEC-96 S13-Thu-0:40 / BE-34 S19-Thu-4:40 / HI-63
Krueger, C.K	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 PMEC-105 S25-Tue-3:40 PMEC-105 S25-Tue-3:40 S1-Tue-3:40 S1-Thu-9:00 S1-Thu-9:00 S1-Thu-9:00 S1-Fri-8:40 S19-Thu-10:40 / S12-Fri-8:00 S9-Fri-9:40 S13-Thu-4:20 S30-Thu-4:20 S30-Thu-4:0 / S10-Thu-9:00 S30-Thu-1:40 / PMEC-89 PMEC-96 S13-Thu-10:40 / BE-34 S16-Wed-10:00 / BE-24
Krueger, C.K	S14-Wed-10:40 S12-Fri-10:20 BE-16 PH-6 HI-69 / HI-72 / PMEC-109 S37-Thu-9:00 S27-Thu-8:20 S27-Thu-8:20 S8-Wed-3:40 PMEC-105 S25-Tue-3:40 PH-1 HI-70 S27-Thu-9:00 S12-Fri-8:40 S19-Thu-10:40 / S12-Fri-8:00 S9-Fri-9:40 S13-Thu-4:20 S30-Thu-8:00 / S30-Thu-9:00 S30-Thu-1:40 / PMEC-89 PMEC-96 S13-Thu-0:40 / BE-34 S19-Thu-4:40 / HI-63

Lauenstein, G.G	
Lawrence, T.J.	\$36-Wed-9:40
Layden, A.M.	S4-Fri-9:20
Leavitt, S.W.	
Ledder, T.D.	S37-Thu-9:40 / HI-40
LeDuc, J.F.	
Lee II, H.	
Lee, C.S.	
Lee, H.B.	
Lee, I	
	S23-Wed-8:20 / S37-Thu-8:20
Lee, R.E	S23-Wed-10:40
Lee, S.C	
Lee, Z.P	
Leff, L.	
	225 Wed 2.40 / DMEC 99
	S35-Wed-3:40 / PMEC-88
Leknes, H	HI-49
Lenters, J.D.	S1-Wed-10:00 / S3-Thu-8:40
	S4-Fri-9:40 / PH-3 / PH-9 / PH-10
	PH-13
Leon I F	S18-Tue-4:20 / S22-Wed-2:00
Leopold, D.J.	
Leshkevich, G	
	S24-Wed-2:00 / S24-Wed-3:00
	PH-7
Letcher, R.J.	
Letourneau, G	
Lewis, J.W.	\$5-Thu-3.40
Lewowski, M	
Li, A	
Li, H	
Li, R	S36-Tue-1:40
Li, W.H	S6-Tue-9:20
Lichti, D.A.	
Lichtkoppler, F	
Lincoln, K.	
Lindgren, B.L.	
Linley, R.D.	S9-Fri-8:00
Lippiatt, S.M	PMEC-111
Lisdahl, D	
Little B I	S23-Wed-8:20 / S37-Thu-8:20
Liu, H.	
	S2-Tue-8:20 / S2-Tue-8:40
Liu, Q.	
Liu, W.	
Liu, Y.	S3-Wed-3:00
Liukkonen, B	
	S4-Fri-9:00 / S4-Fri-10:20
Lochet, A.	
Lochner, C.G.	
Lodge, D.	
	S16-Tue-3:40
Lofgren, B.M	S3-Wed-4:20
Lohmann, R.	
Lohse-Hanson, C.	S30-Thu-9:00 / S30-Thu-10:20
,,,	PMEC-89
Londer, J.G	S12 En; 9.20
Longstaffe, F.J	
Lorimer, J.	
Lozano, S.J.	
Lu, X	S8-Wed-4:20 / S8-Wed-4:40
Lucente, J.	
Lucy, F.E.	
Lund, K.	
Luo, L	
Lusch, D.P.	
Lynch, M.P.	S11-Wed-4:40

m. MacCallum, S.N.S4-Fri-9:20 Maccoux, M.J.S22-Wed-1:40 MacIntyre, S.S1-Wed-10:20 MacNeill, D.PMEC-106 Macuiane, M.BE-17 Madenjian, C.P.S18-Tue-9:00 / S10-Wed-4:20 Magnuson, J.J.S3-Wed-2:00 / S3-Wed-2:20 Maity, S.HI-65 Makarewicz, J.S11-Wed-4:20 Malecki, M.M.S17-Fri-11:40 Mandrak, N.E.S11-Wed-2:00 / S11-Wed-3:00 S13-Thu-2:20 / S13-Thu-5:00 S13-Thu-9:00 / S13-Thu-10:20 S13-Thu-1:40 / S13-Thu-2:00 S13-Thu-3:00 / S13-Thu-3:40 Martinez, A.S17-Thu-4:00 / S17-Thu-4:40 Martinez, F.S31-Wed-5:00 Martz, M.A.S32-Thu-4:00 / S32-Fri-9:20 S31-Wed-5:00 Masson, C.S36-Wed-9:40 Mataosky, R.L.S30-Fri-11:00 Mathews, J.PMEC-108 Matisoff, G.S22-Wed-3:00 Matousek, J.J.HI-47 Matsumoto, K.BE-22 Mauro, S.A.HI-50 Mavroidis, S.M.PMEC-104 Maxcy, J.PMEC-104 May, J.C.S31-Wed-3:00 TT-79 Mayorga, P.S22-Thu-2:20 Mbemba, W.S3-Wed-2:40 McChristie, M.S30-Thu-9:00 / S30-Fri-8:00 PMEC-87 / PMEC-89 McCrimmon, G.S22-Wed-2:00 McCulloch, R.D.S1-Wed-9:00 McDaniel, T.S22-Thu-10:20 / PMEC-107 McDonald, C.P.S1-Wed-8:40 McDonald, E.A.S13-Thu-10:40 S16-Tue-3:40 / S4-Fri-8:40 McKay, R.M.S36-Tue-3:00 / S23-Wed-10:40 S8-Wed-3:40 / S8-Wed-4:00 S8-Wed-5:00 / BE-23 / PMEC-104 S19-Thu-9:40 McLean, K.A.S1-Wed-8:20 McMaster, M.E.S21-Tue-9:40

McNaught, S.BE-34 McNichol, A.S7-Tue-4:20 Mendsaikhan, B.S6-Tue-9:00 Mensinger, A.F.S11-Wed-4:40 Merchant, C.J.S4-Fri-9:20 Merryfield, B.J.S16-Wed-9:00 Meyer, M.W.HI-53 Milani, D.PMEC-87 Miller, B.PMEC-106 Miller, S.E.S16-Wed-10:40 / HI-43 Millie, D.HI-71 HI-44 / HI-45 / HI-55 Minniefield, C.PMEC-103 S7-Tue-4:20 / S7-Tue-4:40 / BE-16 Mishra, S.HI-69 / HI-72 / PMEC-109 Mishra, V.S3-Thu-9:00 PH-2 Mitchell, T.S17-Thu-3:40 Molenhouse, J.S14-Wed-10:00 Moore, M.V.S4-Fri-8:20 Moore, S.A.S30-Thu-3:40 Moore, Z.TT-84 Morrice, J.A.S16-Tue-4:20 Morris, J.R.S31-Wed-3:40 Mortsch, L.S35-Wed-3:40 / S15-Thu-4:00 PMEC-88 PMEC-89 Mountz, E.S35-Wed-4:40 Moynihan, M.A.HI-74 Mueller, S.K.BE-25 Muir, A.M.S12-Fri-10:20 Muir, D.HI-48 Mukherjee, M.S8-Wed-5:00 Mullins, H.T.BE-35 Mulugeta, S.G.HI-50 Munawar, M.S10-Tue-2:40 / S10-Wed-2:40 BE-26 Munkittrick, K.R.S21-Tue-9:40 Munoz Ucros, J.BE-18 Munson, B.H.S32-Thu-4:00 Muraoka, K.PH-10 Murry, B.A.S14-Wed-9:40 / S10-Wed-5:00 S15-Thu-2:40 / S15-Thu-3:40 S15-Thu-4:40 / BE-37 Myers, J.T.S12-Fri-9:00

	I)
	S19-Thu-10:40
Nalepa, T.F.	
-	\$10-Wed-3.00 / BE-28
Naperala, T.R.	S16-Wed-2:40
Negus, M.T.	S39-Tue-2:40
Neilson, M.	
	S35-Wed-4:20 / S35-Wed-4:40
Nelson, J.C.	
Nemec, R.	
Nett, J.H.G.	
Nettesheim, T Newsted, J.L.	
Nghiem, S.V.	
Ngochera, M.	
Niblock, H.	BE-26
Nicholson, A.	
Nieberding, P	
Niemi, G.J.	S16-Tue-1:40 / S16-Tue-2:20
Nienhuis, S	
Niu, J	PH-14
North, R.L.	S22-Wed-4:40
North, R.P.	
Notaro, M	
Nugent, R	PMEC-99
	0
O'Connor, L	
Offenberg, J.H.	
Ogdahl, M.E.	
Ogle, D.H.	
Ogren, S.A	
O'Halloran, S.	
	S22-Thu-10:40 / S17-Fri-9:00
Olker, J.H.	
Olson, J.	
Ong, J.B	
Opfer, S.E	PMEC-111
O'Reilly, C.B.	S4-Fri-8:40
O'Reilly, C.M.	S3-Wed-2:40
Ortiz, J.D.	
Oster, R.J.	S23-Wed-8:20 / S23-Wed-8:40
	HI-75
Ostern, C	
Otto, C.	
Owens, D.W.	
Oyserman, B.O.	S36-Tue-3:00
	P
	S17-Fri-8:40 / S17-Fri-9:40
r agailo, j	HI-44 / HI-45 / HI-55
Palonen, K.E.	
Palsule, V.	
Pangle, K.L.	
Panyushkina, I.P.	
Park, R.	
Parrish, J.	
Pascoe, T.	
Paterson, A.M.	
	S22-Wed-8:40 / S22-Wed-3:40
Pavlac, M.M.	S27-Thu-10:00
	S18-Tue-9:20 / S18-Tue-9:40
Peeters, F.	S4-Fri-11:00
	S33-Tue-9:00 / S32-Thu-5:00
Peltonen, A	
	S11-Wed-2:20 / S11-Wed-2:40
	S22-Wed-3:00 / S11-Wed-4:20
Peppler, M.C.	
Perez-Fuentetaja, A	
Perhar, G.	

Perkins, M.G.S24-Wed-8:20 Perrelli, M.PH-4 / TT-83 Perroud, M.S3-Wed-4:20 S19-Thu-4:20 Pevan, T.BE-31 Phanikumar, M.S.S1-Tue-4:20 / PH-14 Philips, M.HI-72 / PMEC-109 Phuntumart, V.S8-Wed-4:00 Piazza, T.M.HI-73 Pichlova-Ptacnikova, R. S18-Tue-9:00 Pick, F.S22-Thu-2:40 Piletic, I.HI-66 Pillsbury, R.W.S32-Fri-11:20 / HI-64 Pistis, C.PMEC-106 Plisnier, P.D.S4-Fri-8:40 Plumb, R.S.BE-21 Pomeroy, J.S17-Fri-11:40 Poos, M.S11-Wed-3:00 S18-Tue-9:20 / S10-Tue-4:40 S10-Wed-1:40 / BE-28 Potter, B.L.S1-Wed-10:00 Poulain, A.S21-Tue-8:40 Prefontaine, R.C.S39-Tue-2:20 Preisser, M.S30-Thu-9:00 / PMEC-89 Presnail, M.S15-Thu-1:40 Pritt, J.J.TT-79 Puchala, E.A.S10-Tue-3:40 Purcell, H.S27-Thu-9:00 Pypker, T.G.S5-Thu-4:40 ----- 0 ------S30-Thu-2:40 / S30-Thu-4:40 S12-Fri-10:20 ----- R · Raasch, K.B.S11-Wed-5:00 Radke, L.M.S30-Fri-8:40 Rall, R.G.BE-33 Ramin, M.S22-Wed-4:20 Rasmussen, P.W.HI-53 Ray, R.I.S37-Thu-8:20 S16-Tue-3:00 / S16-Tue-3:40 S35-Wed-3:40 / S31-Wed-5:00 S27-Thu-8:00 / S13-Thu-8:20 S32-Thu-1:40 / PH-10 PMEC-88 PMEC-112 Reardon, C.J.HI-62 S28-Fri-8:40 Redder, T.M.S1-Wed-9:00 / S15-Thu-3:00 Reed, J.PMEC-95 Reeves, H.W.S5-Thu-10:40

Richards, K.D.S31-Wed-2:20 Richardson, W.B.S16-Wed-10:00 / BE-24 Riedel, M.S.S16-Wed-2:40 / S37-Thu-9:00 Riessen, H.P.S9-Fri-8:00 S31-Wed-4:00 / HI-73 Rinchard, J.S10-Wed-3:40 Riordan, K.S24-Wed-10:00 Ripley, M.S30-Fri-11:20 Rippke, M.B.BE-35 Roark, S.A.HI-47 Rodenburg, Z.L.HI-52 Roebber, P.J.S3-Thu-8:00 Roehm, C.PH-4 / TT-83 Rogers, M.W.S31-Wed-1:40 / S10-Wed-4:20 Rogers, S.O.BE-19 Rokitnicki-Wojcik, D.B. ..S14-Wed-8:00 Rondeau, M.S17-Fri-11:20 S13-Thu-8:40 / S13-Thu-9:00 S13-Thu-9:40 / S13-Thu-10:00 S13-Thu-10:20 / S13-Thu-10:40 S13-Thu-1:40 / S13-Thu-2:00 BE-32 / BE-34 **BE-28** Roth, B.M.S12-Fri-11:00 Route, W.T.HI-53 Rowe, M.D.S21-Tue-9:00 / S22-Wed-3:40 Rozon, R.BE-26 Rozumalski, L.L.S37-Thu-9:00 S15-Thu-3:00 S10-Wed-2:20 / S19-Thu-10:40 S9-Fri-9:20 / S9-Fri-9:40 Ruetz III, C.R.S16-Wed-8:20 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 / S18-Tue-4:40 S19-Thu-4:40 / HI-60 / HI-63 Rutherford, S.PMEC-98 Ruzycki, E.R.S25-Tue-3:00 / PMEC-93 Ryan, D.J.HI-59 Rygwelski, K.R.S21-Tue-9:00 _____S __ Saborido Basconcillo, L. HI-54 Sadowsky, M.J.S23-Wed-9:40

Sass Hilbrich, D.J	S36-Wed-8:20
Saunders, K.	PMEC-107
Savignac, F	S36-Wed-8:40
Sayers, M	S25-Tue-2:40 / S24-Wed-8:40
	S24-Wed-10:20 / S24-Wed-10:40
	S24-Wed-2:00 / TT-81
	S18-Tue-8:00 / S22-Thu-8:00
	S18-Tue-8:20 / S39-Tue-1:40
0 1 <i>(</i> () 1	S35-Wed-5:00 / S32-Thu-1:40
Schaeffer, J.	S10-Tue-4:20 / S10-Tue-5:00
	S16-Wed-10:00 / S13-Thu-8:00
	BE-32 S3 Wed 3:40
Schallenberg, M Scharold, J.V	33- Wed-3:40 HI 42
Scheelk, B.	
Schlais, M.J.	
	\$18-Tue-2:40 / \$16-Wed-10:00
Schloesser, J.	
Schmieder, P.K.	
Schmitt Marquez, H.S	S22-Wed-9:00
Schneeberger, P.J	S18-Tue-1:40
Schneider, P	S4-Fri-8:00
Schock, N.T.	
Schoer, J	
Schoff, P.K.	
Schofield, J.A.	
Schomberg, J	S25-Tue-3:00 / S32-Fri-10:20
	PMEC-93 / PMEC-95/ PMEC-108 S24-Wed-9:00
Schott, J.K.	524-Wed-9:00
Schouten, S	S29-Tue-2:00 / S29-Tue-2:20 S30-Thu-3:00 / S12-Fri-10:40
	S12-Fri-9:40 / PMEC-108
Schuldt, N.J.	
Schultz, M.S.	
Schulz, T.S.	
	S2-Tue-8:00 / S18-Tue-8:40
	S1-Tue-3:40 / S1-Tue-4:40
	S3-Wed-5:00 / S31-Wed-5:00
	S22-Thu-8:00 / PH-7
Schwalb, A.N.	S22-Thu-8:00 / PH-7 S18-Tue-4:20
Schwalb, A.N Scott, C	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00
Schwalb, A.N Scott, C Scott, C.E	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40
Schwalb, A.N Scott, C. E. Seaman, L.M. Seelbach, P.W. Seider, M.J. Seitz, B. Sekela, M. Selegean, J.P. Selvendiran, P. Sepulveda, M.S. Sepulveda-Villet, O.J.	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L Serveiss, V.B	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20
Schwalb, A.N Scott, C. E. Seaman, L.M. Seelbach, P.W. Seider, M.J. Seitz, B. Sekela, M. Selegean, J.P. Selvendiran, P. Sepulveda, M.S. Sepulveda-Villet, O.J Serck, J.L. Serveiss, V.B. Sgren, C.D.	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L. Serveiss, V.B Sgren, C.D Shantz, M	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27 S1-Wed-8:00
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L. Serveiss, V.B Sgren, C.D Shantz, M Sharma, S	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27 S1-Wed-8:00 S3-Wed-2:20
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L Serveiss, V.B Sgren, C.D Shantz, M Sharma, S Sharrow, J.D	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27 S1-Wed-8:00 S3-Wed-2:20 S23-Wed-8:00 / S37-Thu-8:40
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L Serveiss, V.B Sgren, C.D Shantz, M Sharma, S Sharrow, J.D Shattuck, C	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27 S1-Wed-8:00 S3-Wed-2:20 S23-Wed-8:00 / S37-Thu-8:40 S35-Wed-4:40
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L. Serveiss, V.B Sgren, C.D Shantz, M Sharma, S Sharrow, J.D Shattuck, C Shear, H	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27 S1-Wed-8:00 S3-Wed-2:20 S23-Wed-8:00 / S37-Thu-8:40 S35-Wed-4:40 S32-Thu-2:00
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L Serveiss, V.B Sgren, C.D Shantz, M Sharma, S Sharrow, J.D Shattuck, C Shen, C	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27 S1-Wed-8:00 S3-Wed-2:20 S23-Wed-8:00 / S37-Thu-8:40 S35-Wed-4:40 S32-Thu-2:00 PH-14
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Sepulveda, M.S Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L. Serveiss, V.B Sgren, C.D Shantz, M Sharma, S Sharrow, J.D Shattuck, C Shear, H Shen, C Sheng, Y	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27 S1-Wed-8:00 / S37-Thu-8:40 S35-Wed-2:20 S23-Wed-2:20 S23-Wed-8:00 / S37-Thu-8:40 S35-Wed-4:40 S32-Thu-2:00 PH-14 S1-Wed-10:00
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L. Serveiss, V.B Sgren, C.D Shantz, M Sharma, S Sharrow, J.D Shattuck, C Shear, H Shen, C Sherman, J.J	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27 S1-Wed-8:00 / S37-Thu-8:40 S35-Wed-2:20 S23-Wed-2:20 S23-Wed-8:00 / S37-Thu-8:40 S35-Wed-4:40 S35-Wed-4:40 S32-Thu-2:00 PH-14 S1-Wed-10:00 S14-Wed-9:40
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Selvendiran, P Sepulveda, M.S Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L Serck, J.L Sgren, C.D Shantz, M Sharrow, J.D Shartuck, C Shear, H Sheng, Y Shimaraev, N.M	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27 S1-Wed-8:00 / S37-Thu-8:40 S35-Wed-2:20 S23-Wed-8:00 / S37-Thu-8:40 S35-Wed-4:40 S35-Wed-4:40 S12-Thu-2:00 PH-14 S1-Wed-10:00 S14-Wed-9:40 S1-Wed-10:40
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L. Serveiss, V.B Sgren, C.D Shantz, M Sharma, S Sharrow, J.D Shattuck, C Shear, H Shen, C Sherman, J.J	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27 S1-Wed-8:00 / S37-Thu-8:40 S35-Wed-2:20 S23-Wed-8:00 / S37-Thu-8:40 S35-Wed-4:40 S35-Wed-4:40 S32-Thu-2:00 PH-14 S1-Wed-10:00 S14-Wed-9:40 S1-Wed-10:40 S32-Thu-4:00
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Selvendiran, P Sepulveda, M.S Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L Serck, J.L Sgren, C.D Shartz, M Sharrow, J.D Shattuck, C Shear, H Sheng, Y Shimaraev, N.M Shimoda, Y Shimagin, B	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27 S1-Wed-8:00 / S37-Thu-8:40 S35-Wed-2:20 S23-Wed-8:00 / S37-Thu-8:40 S35-Wed-4:40 S35-Wed-4:40 S35-Wed-4:40 S1-Wed-10:00 S14-Wed-9:40 S1-Wed-10:40 S22-Wed-4:20 S26-Tue-9:40
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Selvendiran, P Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L Serveiss, V.B Sgren, C.D Shartz, M Sharrow, J.D Shattuck, C Shartuck, C Shear, H Sherman, J.J Shimaraev, N.M Shimoda, Y Shara, S Shimoda, Y Shara, S	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27 S1-Wed-8:00 / S37-Thu-8:40 S35-Wed-2:20 S23-Wed-8:00 / S37-Thu-8:40 S35-Wed-2:20 S23-Wed-8:00 / S37-Thu-8:40 S35-Wed-4:40 S32-Thu-2:00 PH-14 S1-Wed-10:00 S14-Wed-9:40 S1-Wed-10:40 S32-Thu-4:00 S22-Wed-4:20 S26-Tue-9:40 BE-19
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Selvendiran, P Sepulveda, M.S Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L Serveiss, V.B Sgren, C.D Shantz, M Sharrow, J.D Shattuck, C Shartuck, C Shear, H Sheng, Y Sherman, J.J Shimaraev, N.M Shimoda, Y Shuchman, R	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27 S1-Wed-8:00 / S37-Thu-8:40 S35-Wed-2:20 S23-Wed-8:00 / S37-Thu-8:40 S35-Wed-2:20 S23-Wed-8:00 / S37-Thu-8:40 S35-Wed-4:40 S32-Thu-2:00 PH-14 S1-Wed-10:00 S1-Wed-10:40 S32-Thu-4:00 S22-Wed-4:20 S26-Tue-9:40 BE-19 S25-Tue-2:40 / S24-Wed-8:40
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Selvendiran, P Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L Serck, J.L Serveiss, V.B Sgren, C.D Shartz, M Shartz, M Sharrow, J.D Shattuck, C Shear, H Sheng, Y Sherman, J.J Shimek, S Shimoda, Y Shuchman, R	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27 S1-Wed-8:00 / S37-Thu-8:40 S35-Wed-2:20 S23-Wed-8:00 / S37-Thu-8:40 S35-Wed-4:40 S35-Wed-4:40 S35-Wed-4:40 S1-Wed-10:00 S14-Wed-9:40 S1-Wed-10:40 S22-Wed-4:20 S26-Tue-9:40 BE-19 S25-Tue-2:40 / S24-Wed-8:40 S24-Wed-10:20 / S24-Wed-10:40
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Selvendiran, P Sepulveda, M.S Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L Serveiss, V.B Sgren, C.D Shantz, M Shartz, M Sharma, S Sharrow, J.D Shattuck, C Shear, H Sheng, Y Sherman, J.J. Shimaraev, N.M Shimoda, Y Shuchman, R	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27 S1-Wed-8:00 / S37-Thu-8:40 S35-Wed-2:20 S23-Wed-8:00 / S37-Thu-8:40 S35-Wed-4:40 S32-Thu-2:00 PH-14 S1-Wed-10:00 S14-Wed-9:40 S1-Wed-10:40 S32-Thu-4:00 S22-Wed-4:20 S26-Tue-9:40 BE-19 S25-Tue-2:40 / S24-Wed-8:40 S24-Wed-10:20 / S24-Wed-10:40 S24-Wed-2:00 / TT-78 / TT-81
Schwalb, A.N Scott, C Scott, C.E Seaman, L.M Seelbach, P.W Seider, M.J Seitz, B Sekela, M Selegean, J.P Selvendiran, P Selvendiran, P Sepulveda, M.S Sepulveda, M.S Sepulveda-Villet, O.J Serck, J.L Serck, J.L Serveiss, V.B Sgren, C.D Shartz, M Sharrow, J.D Shattuck, C Shartuck, C Shear, H Sherman, J.J Shimaraev, N.M Shimoda, Y Shuchman, R	S22-Thu-8:00 / PH-7 S18-Tue-4:20 S23-Wed-8:00 S16-Wed-2:20 S5-Thu-4:20 S16-Wed-10:00 / S31-Wed-1:40 S12-Fri-9:20 / S12-Fri-11:00 S32-Thu-3:00 S17-Fri-11:40 S30-Fri-9:40 S26-Tue-8:40 HI-59 / HI-65 S39-Tue-9:40 S23-Wed-8:00 / S37-Thu-8:40 S36-Wed-10:20 BE-27 S1-Wed-8:00 / S37-Thu-8:40 S36-Wed-2:20 S23-Wed-8:00 / S37-Thu-8:40 S35-Wed-4:40 S35-Wed-4:40 S35-Wed-4:40 S32-Thu-2:00 PH-14 S1-Wed-10:00 S14-Wed-9:40 S1-Wed-10:40 S32-Thu-4:00 S22-Wed-4:20 S26-Tue-9:40 BE-19 S25-Tue-2:40 / S24-Wed-8:40 S24-Wed-10:20 / S24-Wed-10:40 S24-Wed-2:00 / TT-78 / TT-81 S1-Wed-10:00

Sierszen, M.E.	S16-Tue-4:20 / S10-Wed-4:00
Sikarskie, J.G.	
Silbernagel, J	S37-Thu-10:20 / PMEC-108
Simmons, L.J.	BE-27
Simoliunas, S	
Singer, J	
Sinninghe Damste, J.S.	.S29-Tue-2:20
Sierven, G	S25-Tue-3:00 / PMEC-93
	C12 The 440
Skufca, J.D	513-1nu-4:40
Sleeman, J	S31-Wed-4:00
Sloss, B.L.	S39-Tue-8:20
Small, C.	
Small, G.E	
Smart, A.M.	BE-36
Smith, C.J.	
	\$36-Tue-2:40 / \$13-Thu-4:40
Smith, E	S21-Tue-8:00 / S17-Thu-3:40
-	PMEC-94
Curith DEH	
Smith, R.E.H.	
	PH-1 BE-20
Smith, S	S28-Fri-9.20
ommun, S.D.P	S16-Tue-2:40 / S16-Tue-3:00
	S16-Tue-3:40
Smith, S.S	
Smith, V.	
Snyder, R.J.	
Songzhi, L	S24-Wed-3:00
	S19-Thu-8:20 / S13-Thu-10:20
Sopkovich, E	
Sorensen, H	S30-Fri-9:00
00110,01	\$16-Tue-3:40
Spacht, D.E	HI-50
Spence, C.	S5-Thu-9:40 / S5-Thu-10:00
Spencer, C	\$23_Wed_9:00
Spencer, O.	C10 Trac 4:20
Spillman, C.M	
Spinner, S	S3-Wed-2:20
Spinner, S Stadler-Salt, N.	\$3-Wed-2:20 \$36-Wed-8:20 / \$30-Thu-8:00
Spinner, S Stadler-Salt, N	S36-Wed-8:20 / S30-Thu-8:00
Spinner, S Stadler-Salt, N	S36-Wed-8:20 / S30-Thu-8:00 S30-Thu-9:00 / S30-Thu-1:40
Stadler-Salt, N	S36-Wed-8:20 / S30-Thu-8:00 S30-Thu-9:00 / S30-Thu-1:40 PMEC-89
Stadler-Salt, N	S36-Wed-8:20 / S30-Thu-8:00 S30-Thu-9:00 / S30-Thu-1:40 PMEC-89
Stadler-Salt, N	S36-Wed-8:20 / S30-Thu-8:00 S30-Thu-9:00 / S30-Thu-1:40 PMEC-89 S9-Fri-8:20
Stadler-Salt, N Stainton, M Stapanian, M.A	S36-Wed-8:20 / S30-Thu-8:00 S30-Thu-9:00 / S30-Thu-1:40 PMEC-89 S9-Fri-8:20 S6-Tue-8:40
Stadler-Salt, N Stainton, M Stapanian, M.A Stark, R	S36-Wed-8:20 / S30-Thu-8:00 S30-Thu-9:00 / S30-Thu-1:40 PMEC-89 S9-Fri-8:20 S6-Tue-8:40 S22-Thu-2:00
Stadler-Salt, N Stainton, M Stapanian, M.A	S36-Wed-8:20 / S30-Thu-8:00 S30-Thu-9:00 / S30-Thu-1:40 PMEC-89 S9-Fri-8:20 S6-Tue-8:40 S22-Thu-2:00
Stadler-Salt, N Stainton, M Stapanian, M.A Stark, R Stein, S.R	S36-Wed-8:20 / S30-Thu-8:00 S30-Thu-9:00 / S30-Thu-1:40 PMEC-89 S9-Fri-8:20 S6-Tue-8:40 S22-Thu-2:00 S10-Tue-4:40
Stadler-Salt, N Stainton, M Stapanian, M.A Stark, R Stein, S.R	S36-Wed-8:20 / S30-Thu-8:00 S30-Thu-9:00 / S30-Thu-1:40 PMEC-89 S9-Fri-8:20 S6-Tue-8:40 S22-Thu-2:00 S10-Tue-4:40 S16-Tue-2:40 / S16-Tue-3:00
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Stadler-Salt, N Stainton, M Stapanian, M.A Stark, R Stein, S.R Steinman, A Stepien, C Stepien, C Stewart, R.W Stewart, K.M Stewart, R Stewart, S.R Stewart, S.R Stewart, J Stirratt, H Storkwell, J.D Stone, M Stoneman, A.T Stott, W Stow, C.A Straile, D Strickert, G	S36-Wed-8:20 / S30-Thu-8:00 S30-Thu-9:00 / S30-Thu-1:40 PMEC-89 S9-Fri-8:20 S6-Tue-8:40 S22-Thu-2:00 S10-Tue-4:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 / S15-Thu-2:20 S39-Tue-9:40 / S39-Tue-10:00 S36-Tue-4:20 / S13-Thu-2:40 BE-29 / PMEC-100 S24-Wed-8:20 / S22-Thu-1:40 S22-Thu-2:00 S30-Fri-8:20 / S30-Fri-9:00 S32-Thu-4:20 / PMEC-96 PMEC-99 S10-Wed-2:20 S10-Wed-2:20 S10-Tue-2:20 / S12-Fri-9:00 S12-Fri-11:00 S1-Wed-8:20 S18-Tue-9:00 / S18-Tue-4:00 PH-12 / HI-74 / TT-79 S4-Fri-11:00 S24-Wed-8:20 / S24-Wed-1:40 S30-Fri-8:20
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Stadler-Salt, N Stainton, M Stapanian, M.A Stark, R Stein, S.R Steinman, A Stepien, C Stepien, C Stewart, R. W Stewart, K.M Stewart, R Stewart, R Stewart, S.R Stewart, S.R Stewart, J Storkwell, J.D Stone, M Stone, M Stott, W Stott, W Straile, D Straile, D Strickert, G Strzok, L	S36-Wed-8:20 / S30-Thu-8:00 S30-Thu-9:00 / S30-Thu-1:40 PMEC-89 S9-Fri-8:20 S6-Tue-8:40 S22-Thu-2:00 S10-Tue-4:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 / S15-Thu-2:20 S39-Tue-9:40 / S39-Tue-10:00 S36-Tue-4:20 / S13-Thu-2:40 BE-29 / PMEC-100 S24-Wed-8:20 / S22-Thu-1:40 S22-Thu-2:00 S30-Fri-8:20 / S30-Fri-9:00 S32-Thu-4:20 / PMEC-96 PMEC-99 S10-Wed-2:20 S10-Wed-2:20 S10-Tue-2:20 / S12-Fri-9:00 S12-Fri-11:00 S1-Wed-8:20 S18-Tue-9:00 / S18-Tue-4:00 PH-12 / HI-74 / TT-79 S4-Fri-11:00 S24-Wed-8:20 / S24-Wed-1:40 S30-Fri-8:20 S17-Fri-11:20 / HI-51 / HI-54 S29-Tue-2:40
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Stadler-Salt, N Stainton, M Stapanian, M.A Stark, R Stein, S.R Steinman, A Stepien, C Stepien, C Stewart, R. W Stewart, K.M Stewart, R Stewart, R Stewart, S.R Stewart, S.R Stewart, J Storkwell, J.D Stone, M Stone, M Stott, W Stott, W Straile, D Straile, D Strickert, G Strzok, L	S36-Wed-8:20 / S30-Thu-8:00 S30-Thu-9:00 / S30-Thu-1:40 PMEC-89 S9-Fri-8:20 S6-Tue-8:40 S22-Thu-2:00 S10-Tue-4:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 / S15-Thu-2:20 S39-Tue-9:40 / S39-Tue-10:00 S36-Tue-4:20 / S13-Thu-2:40 BE-29 / PMEC-100 S24-Wed-8:20 / S22-Thu-1:40 S22-Thu-2:00 S30-Fri-8:20 / S30-Fri-9:00 S32-Thu-4:20 / PMEC-96 PMEC-99 S10-Wed-2:20 S10-Wed-2:20 S10-Tue-2:20 / S12-Fri-9:00 S12-Fri-11:00 S1-Wed-8:20 S18-Tue-9:00 / S18-Tue-4:00 PH-12 / HI-74 / TT-79 S4-Fri-11:00 S24-Wed-8:20 / S24-Wed-1:40 S30-Fri-8:20 S17-Fri-11:20 / HI-51 / HI-54 S29-Tue-2:40 S35-Wed-4:40 / S19-Thu-4:40
Stadler-Salt, N Stainton, M Stapanian, M.A Stark, R Stein, S.R Steinman, A Stepien, C Stepien, C Stewart, R. W Stewart, K.M Stewart, R Stewart, R Stewart, S.R Stewart, S.R Stewart, J Storkwell, J.D Stone, M Stone, M Stott, W Stott, W Straile, D Straile, D Strickert, G Strzok, L	S36-Wed-8:20 / S30-Thu-8:00 S30-Thu-9:00 / S30-Thu-1:40 PMEC-89 S9-Fri-8:20 S6-Tue-8:40 S22-Thu-2:00 S10-Tue-4:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 / S15-Thu-2:20 S39-Tue-9:40 / S39-Tue-10:00 S36-Tue-4:20 / S13-Thu-2:40 BE-29 / PMEC-100 S24-Wed-8:20 / S22-Thu-1:40 S22-Thu-2:00 S30-Fri-8:20 / S30-Fri-9:00 S32-Thu-4:20 / PMEC-96 PMEC-99 S10-Wed-2:20 S10-Wed-2:20 / S12-Fri-9:00 S12-Fri-11:00 S1-Wed-8:20 S18-Tue-9:00 / S18-Tue-4:00 PH-12 / HI-74 / TT-79 S4-Fri-11:00 S24-Wed-8:20 / S24-Wed-1:40 S30-Fri-8:20 S17-Fri-11:20 / HI-51 / HI-54 S29-Tue-2:40 S35-Wed-4:40 / S19-Thu-4:40 S32-Fri-8:40 / HI-60 / HI-63
Stadler-Salt, N Stainton, M Stapanian, M.A Stark, R Stein, S.R Steinman, A Stepien, C Stepien, C Stewart, R. W Stewart, K.M Stewart, R Stewart, R Stewart, S.R Stewart, S.R Stewart, J Storkwell, J.D Stone, M Stone, M Stott, W Stott, W Straile, D Straile, D Strickert, G Strzok, L	S36-Wed-8:20 / S30-Thu-8:00 S30-Thu-9:00 / S30-Thu-1:40 PMEC-89 S9-Fri-8:20 S6-Tue-8:40 S22-Thu-2:00 S10-Tue-4:40 S16-Tue-2:40 / S16-Tue-3:00 S16-Tue-3:40 / S15-Thu-2:20 S39-Tue-9:40 / S39-Tue-10:00 S36-Tue-4:20 / S13-Thu-2:40 BE-29 / PMEC-100 S24-Wed-8:20 / S22-Thu-1:40 S22-Thu-2:00 S30-Fri-8:20 / S30-Fri-9:00 S32-Thu-4:20 / PMEC-96 PMEC-99 S10-Wed-2:20 S10-Wed-2:20 S10-Tue-2:20 / S12-Fri-9:00 S12-Fri-11:00 S1-Wed-8:20 S18-Tue-9:00 / S18-Tue-4:00 PH-12 / HI-74 / TT-79 S4-Fri-11:00 S24-Wed-8:20 / S24-Wed-1:40 S30-Fri-8:20 S17-Fri-11:20 / HI-51 / HI-54 S29-Tue-2:40 S35-Wed-4:40 / S19-Thu-4:40

Su, Y.S17-Fri-8:20 Sullivan, J.M.S27-Thu-10:00 Sullivan, P.J.S36-Tue-3:40 Sundell, R.S30-Fri-9:00 Sutton, T.M.S39-Tue-8:20 Syrgiannis, J.S17-Fri-11:40 Szmania, D.C.S22-Thu-9:00 ----- T ---Taillon, K.S30-Fri-8:00 / PMEC-87 Taptuna, F.S39-Tue-8:40 Taylor, W.D.S16-Wed-1:40 Tazelaar, D.L.HI-47 Teece, M.A.BE-35 Terkina, I.A.S23-Wed-10:20 Terry, K.S15-Thu-1:40 Teubner, K.S4-Fri-11:20 / S4-Fri-11:40 Tholsen, T.M.HI-44 S13-Thu-1:40 / S13-Thu-3:00 S13-Thu-3:40 Thompson, J.A.HI-64 Thupaki, P.S1-Tue-4:20 Tiegs, S.D.S11-Wed-1:40 / S11-Wed-2:00 S25-Tue-3:40 Trenhaile, A.S.S1-Wed-8:00 Troitskaya, E.S.S1-Wed-10:40 Troy, C.D.S1-Tue-4:00 / PH-5 Tucker, W.C.HI-73 Turschak, B.A.S10-Tue-4:00 Twiss, M.R.S36-Tue-2:40 / S13-Thu-4:40 Tyner, E.H.S31-Wed-4:20 Tyson, J.S1-Wed-9:40 / TT-79 ----- || -Ulrich, C.S13-Thu-4:40 Urban, N.R.S1-Wed-8:40 / S5-Thu-4:40 S15-Thu-2:00 / S15-Thu-2:20 S15-Thu-2:40 / S15-Thu-3:40 S15-Thu-4:40 / S10-Wed-5:00 BE-37 --- U ---Vaccaro, L.E.S32-Thu-1:40 / PMEC-112 Vadeboncoeur, Y.S4-Fri-8:40 Vail, J.PMEC-99 Valenta, T.J.S22-Thu-8:40 / S22-Thu-9:00 Vallazza, J.M.BE-24 Van Cleave, K.S3-Thu-8:40 / PH-9 Van der Knaap, M.S36-Wed-9:40 Van Der Werff, J.M. ...S10-Tue-1:40 / BE-31 VanDeHey, J.A.S39-Tue-8:20

Vanderploeg, H.A.S18-Tue-8:40 / /S18-Tue-9:00 S18-Tue-9:20 Vargo, R.PMEC-105 Varian, A.M.S30-Thu-2:40 Verburg, P.S1-Tue-5:00 / S4-Fri-8:40 Vermette, S.PH-4 TT-83 Vidal, J.S1-Wed-10:20 Villard, P.V.S1-Wed-8:00 Villeneuve, M.S36-Wed-8:40 Voronova, S.O.S23-Wed-10:20 Wade, S.S13-Thu-10:20 Wagler, M.PMEC-108 Wagner, C.HI-40 Waide, J.B.S16-Wed-10:00 Walker, G.S36-Wed-8:40 Walsh, M.S19-Thu-10:40 / S9-Fri-9:40 Walters, H.S32-Fri-8:20 / PMEC-98 Waltho, J.S17-Fri-11:40 Wang, J.S3-Wed-3:00 / /S3-Wed-4:40 S3-Wed-5:00 / S3-Thu-8:40 S4-Fri-9:40 / PH-7 / PH-8 Ward, M.C.S30-Thu-3:00 S10-Wed-4:20 Waters, S.S32-Fri-8:40 Watkins, D.W.S5-Thu-1:40 Watkins, J.S10-Wed-2:20 / S9-Fri-9:20 Watkinson, D.A.S14-Wed-10:40 S22-Thu-2:40 / S9-Fri-8:20 / TT-76 Weaver, T.L.PMEC-90 Weckman, G.HI-71 Wehrli, B.S4-Fri-8:40 Weimer, E.J.TT-79 Weiner, J.S36-Wed-10:20 Weinert, M.S15-Thu-2:20 Wellen, C.S22-Wed-4:20 Wellington, C.G.S32-Fri-9:00 Were, V.S32-Fri-10:20 S29-Tue-2:20 / S29-Tue-2:40 S7-Tue-4:40 / BE-16 Westerbur, A.PMEC-93 White, B.A.BE-22 Wilcox, E.M.S31-Wed-4:20 PMEC-93

Wilson, G.B.	
WIISON, G.D	626 Wed 10.00
Winick, J.	S32-Fri-8:40
Winslow, C.J.	
Winslow, L.	
Winter, J.	
Withers, J.L.	PH-5
Witter, D.L.	
Woityra, W.C.	
Wolfe, M.D.	\$32-Fri-9:00
Woltering, M.L.	
Woodruff, L.G	PMEC-90
Woolnough, D	S14-Wed-9:40
Wortley, A.J.	TT-82
Mariaht C	C12 Thu 9:00
Wright, G	515-1hu-8:00
Wrubleski, D.A.	S14-Wed-10:20 / S14-Wed-10:40
Wu, C	S2-Tue-8:40 / S2-Tue-9:00
	S2-Tue-10:00 / S32-Fri-11:00
	PH-6 PH-10
Wuerstle, J.	S19-Thu-1:40
	X
Xia, X	S21-Tue-9:40 / S17-Fri-9:00
	S17-Fri-9:40 / HI-45 HI-55
Xie, L.Q	\$22-Thu-10.40
Xu, J	56-Tue-9:20
Xu, L	S7-Tue-4:20
	Y
Yan, N.D	S9-Fri-8:00
Yang, R	S17-Fri-11:00
Yavno, S	\$11_Wed_5.00
Yerubandi, R	S22-Wed-2:00 / S22-Thu-10:20
Yousef, F.	S18-Tue-8:40 / S18-Tue-10:00
	S24-Wed-10:40 / TT-78
Yu, X.B	\$6-Tue-9·20
Yucuis, R.A.	
Yule, D.L.	S10-Tue-2:20 / S30-Thu-3:40
	\$12 Er; 0.00 / \$12 Er; 11.00
Variate DM	
furista, P.M	
	HI-42 / HI-43
	Z
Zanatta, D.	
Zanatta, D	S14-Wed-9:40 / S19-Thu-2:20
Zanatta, D	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40
Zanatta, D Zhang, H	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40 S18-Tue-4:40
Zanatta, D Zhang, H	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40 S18-Tue-4:40
Zanatta, D Zhang, H Zhang, X	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40 S18-Tue-4:40 S21-Tue-9:00
Zanatta, D Zhang, H Zhang, X Zhang, Y.J	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40 S18-Tue-4:40 S21-Tue-9:00 S2-Tue-10:00
Zanatta, D Zhang, H Zhang, X Zhang, Y.J Zhao, J	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40 S18-Tue-4:40 S21-Tue-9:00 S2-Tue-10:00 S22-Wed-2:00
Zanatta, D Zhang, H Zhang, X Zhang, Y.J Zhao, J Zhdanov, A.A	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40 S18-Tue-4:40 S21-Tue-9:00 S2-Tue-10:00 S22-Wed-2:00 S1-Wed-10:40
Zanatta, D Zhang, H Zhang, X Zhang, Y.J Zhao, J Zhdanov, A.A	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40 S18-Tue-4:40 S21-Tue-9:00 S2-Tue-10:00 S22-Wed-2:00 S1-Wed-10:40
Zanatta, D Zhang, H Zhang, X Zhang, Y.J Zhao, J Zhdanov, A.A Zhong, Y	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40 S18-Tue-4:40 S21-Tue-9:00 S2-Tue-10:00 S22-Wed-2:00 S1-Wed-10:40 S6-Tue-9:40
Zanatta, D Zhang, H Zhang, X Zhang, Y.J Zhao, J Zhdanov, A.A Zhong, Y Zhu, X	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40 S18-Tue-4:40 S21-Tue-9:00 S2-Tue-10:00 S22-Wed-2:00 S1-Wed-10:40 S6-Tue-9:40 S39-Tue-8:40 / HI-57
Zanatta, D Zhang, H Zhang, X Zhang, Y.J Zhao, J Zhdanov, A.A Zhong, Y Zhu, X Zigah, P.K	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40 S18-Tue-4:40 S21-Tue-9:00 S2-Tue-10:00 S2-Wed-2:00 S1-Wed-10:40 S6-Tue-9:40 S39-Tue-8:40 / HI-57 S7-Tue-4:20 / S7-Tue-4:40
Zanatta, D Zhang, H Zhang, X Zhang, Y.J Zhao, J Zhdanov, A.A Zhong, Y Zhu, X Zigah, P.K	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40 S18-Tue-4:40 S21-Tue-9:00 S2-Tue-10:00 S2-Wed-2:00 S1-Wed-10:40 S6-Tue-9:40 S39-Tue-8:40 / HI-57 S7-Tue-4:20 / S7-Tue-4:40
Zanatta, D Zhang, H Zhang, X Zhang, Y.J Zhao, J Zhdanov, A.A Zhong, Y Zhu, X Zigah, P.K Zigler, O	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40 S18-Tue-4:40 S21-Tue-9:00 S2-Tue-10:00 S2-Wed-2:00 S1-Wed-10:40 S6-Tue-9:40 S39-Tue-8:40 / HI-57 S7-Tue-4:20 / S7-Tue-4:40 PH-11
Zanatta, D Zhang, H Zhang, X Zhang, Y.J Zhao, J Zhdanov, A.A Zhong, Y Zhu, X Zigah, P.K Zigler, O Zimmerman, M.S	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40 S18-Tue-4:40 S21-Tue-9:00 S2-Tue-10:00 S2-Wed-2:00 S1-Wed-10:40 S6-Tue-9:40 S39-Tue-8:40 / HI-57 S7-Tue-4:20 / S7-Tue-4:40 PH-11 S12-Fri-10:20
Zanatta, D Zhang, H Zhang, X Zhang, Y.J Zhao, J Zhdanov, A.A Zhong, Y Zhu, X Zigah, P.K Zigler, O Zimmerman, M.S Zlotnik, V.A	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40 S18-Tue-4:40 S21-Tue-9:00 S2-Tue-10:00 S2-Wed-2:00 S1-Wed-10:40 S6-Tue-9:40 S39-Tue-8:40 / HI-57 S7-Tue-4:20 / S7-Tue-4:40 PH-11 S12-Fri-10:20 PH-3
Zanatta, D Zhang, H Zhang, X Zhang, Y.J Zhao, J Zhdanov, A.A Zhong, Y Zhu, X Zigah, P.K Zigler, O Zimmerman, M.S	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40 S18-Tue-4:40 S21-Tue-9:00 S2-Tue-10:00 S2-Wed-2:00 S1-Wed-10:40 S6-Tue-9:40 S39-Tue-8:40 / HI-57 S7-Tue-4:20 / S7-Tue-4:40 PH-11 S12-Fri-10:20 PH-3
Zanatta, D Zhang, H Zhang, X Zhang, Y.J Zhao, J Zhdanov, A.A Zhong, Y Zhu, X Zigah, P.K Zigler, O Zimmerman, M.S Zlotnik, V.A	S14-Wed-9:40 / S19-Thu-2:20 S19-Thu-2:40 S18-Tue-4:40 S21-Tue-9:00 S2-Tue-10:00 S2-Wed-2:00 S1-Wed-10:40 S6-Tue-9:40 S39-Tue-8:40 / HI-57 S7-Tue-4:20 / S7-Tue-4:40 PH-11 S12-Fri-10:20 PH-3
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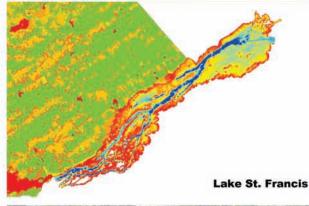














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