83rd Annual
Wastewater Operations Conference

Mankato Wastewater Treatment Plant

March 25-27, 2020
Marriott Northwest, Brooklyn Park
Welcome

The Minnesota Pollution Control Agency Certification and Training Unit welcomes you to the 83rd Annual Wastewater Operations Conference. It is our goal that you will find this event interesting, innovative, and educational.

Our exceptional planning committee has worked hard to design a program loaded with relevant industry topics. We encourage you to explore all of the sessions, and to take time to network with fellow attendees.

We appreciate and gratefully acknowledge the contributions of all involved in putting together this conference – the Planning Committee, developers, speakers, presenters, presiders and vendors.

Finally, we thank you – the attendees and participants – for your support. You are the reason we do this. Enjoy the conference!

The Training Team
Nick, Annaliza, Gabe, Matt, Tracy, Don, Marc, Aaron

Attendance sheets

To receive certification contact hours, you must sign an attendance sheet for each session you attend. Attendance sheets will be available towards the end of each session (morning and afternoon).

On-line conference survey

Please share your comments and feedback about the 2020 conference on-line. You may use a computer or your mobile device to access the conference evaluation at this link www.tinyurl.com/2020MPCA

The survey is brief and your feedback helps focus on your wants and needs for the coming year. There are two laptop computers near the registration booth if you’d like to complete your evaluation there. You can also obtain a paper copy at the registration desk if you would prefer to submit comments that way. Thanks for your help to make this conference better!
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General Information

Lunch – Your name badge is required for lunch Wednesday and Thursday.
(No lunch on Friday.)

Breaks – Breaks held in the hallway outside the Northland Ballroom.

Smoking – Smoking is not allowed in the Conference Center.

Exam Refreshers – The exam refreshers are working sessions; please bring a non-programmable calculator (smartphones not allowed during exam) and pencil.

Contact hours – To receive 16 direct contact hours, you must attend Wednesday until 4:30 pm, Thursday until 4:30 pm, and Friday until noon. Those attending the conference and the entire Type IV (biosolids) refresher session will receive 6 biosolids contact hours and 10 wastewater contact hours.

Vendor drawing – Prize winners will be posted during the Wednesday Vendor show. You must be present to win.

Ask MPCA – MPCA staff will be available Wednesday, Thursday, and Friday in the hallway adjacent to the Northland Ballroom to answer any questions you may have.
**Wednesday at-a-glance**

<table>
<thead>
<tr>
<th>Time</th>
<th>Room/Location</th>
<th>Topic</th>
<th>Speaker/Presenter</th>
<th>Session Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 am</td>
<td>Arbor Lakes, Minnesota Salon 1</td>
<td>Workplace/Personnel Strategies</td>
<td>Nick Haig, MPCA</td>
<td>Northland Ballroom</td>
</tr>
<tr>
<td>9:00 am</td>
<td>Hennepin Salon 2, Minnesota Salon 2</td>
<td>New Technologies &amp; the Problems They Solved</td>
<td>Kenny Blumenfeld, Ph.D.</td>
<td>Northland Ballroom</td>
</tr>
<tr>
<td>9:00 am</td>
<td>Hennepin Salon 3, Lake Michigan (Lwr Level)</td>
<td>Pretreatment and Industrial Wastewater Management</td>
<td></td>
<td>Northland Ballroom</td>
</tr>
<tr>
<td>9:00 am</td>
<td>Arbor Lakes, Minnesota Salon 1</td>
<td>Combating Climate Change</td>
<td></td>
<td>Northland Ballroom</td>
</tr>
<tr>
<td>9:00 am</td>
<td>Hennepin Salon 2, Minnesota Salon 2</td>
<td>Pumps &amp; Controls</td>
<td></td>
<td>Northland Ballroom</td>
</tr>
<tr>
<td>12:30 pm</td>
<td>Minnesota Salon 2, Arbor Lakes</td>
<td>DMRS Safety &amp; Security</td>
<td></td>
<td>Northland Ballroom</td>
</tr>
<tr>
<td>12:30 pm</td>
<td>Hennepin Salon 1, Lake Michigan (Lwr Level)</td>
<td>Service Providers: SSTS &amp; LSTS Certification</td>
<td></td>
<td>Northland Ballroom</td>
</tr>
<tr>
<td>12:30 pm</td>
<td>Hennepin Salon 1, Arbor Lakes</td>
<td>A/B Exam Refreshers</td>
<td></td>
<td>Northland Ballroom</td>
</tr>
<tr>
<td>12:30 pm</td>
<td>Hennepin Salon 1, Lake Michigan (Lwr Level)</td>
<td>C/D Exam Refreshers</td>
<td></td>
<td>Northland Ballroom</td>
</tr>
<tr>
<td>11:30 am</td>
<td>Lunch (served at two different times 11:30 am &amp; 12:00 pm depending on session – Great Room)</td>
<td>Lunch served at two different times 11:30 am &amp; 12:00 pm depending on session – Great Room</td>
<td></td>
<td>Great Room</td>
</tr>
<tr>
<td>1:30 pm</td>
<td>Meet &amp; Greet w/MPCA staff – Northland Hallway</td>
<td>Meet &amp; Greet w/MPCA staff – Northland Hallway</td>
<td></td>
<td>Northland Ballroom</td>
</tr>
<tr>
<td>2:00 pm</td>
<td>Wastewater Treatment Facility Operational Awards – Northland Ballroom</td>
<td>Wastewater Treatment Facility Operational Awards – Northland Ballroom</td>
<td></td>
<td>Northland Ballroom</td>
</tr>
<tr>
<td>4:30 pm</td>
<td>End of day</td>
<td></td>
<td></td>
<td>Northland Ballroom</td>
</tr>
</tbody>
</table>
**Wednesday morning**

<table>
<thead>
<tr>
<th>Plenary Session</th>
<th>Northland Ballroom</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 Welcome &amp; Introduction – Nick Haig</td>
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<tr>
<td>8:05 Understanding Minnesota’s Changing Hydroclimate – Kenny Blumenfeld, Ph.D., Sr. Climatologist, DNR</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Class A &amp; B Exam Refresher</th>
<th>Lake Michigan (Lwr Level)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 Two-day math and concept review for Class A and B Wastewater Exams. *Must be registered separately for this session. Class is limited to 50.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Class C &amp; D Exam Refresher</th>
<th>Hennepin Salon 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 Two-day math and concept review for Class C and D Wastewater Exams</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Pumps &amp; Controls</th>
<th>Minnesota Salon 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 Odor Control, F.O.G. Remediation and Corrosion Control using Hydroxyl Radicals – Michael Tuel</td>
<td></td>
</tr>
<tr>
<td>10:00 Grinders: Protecting Pump and Valves – Troy Heimerl</td>
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<tr>
<td>11:00 Arc Flash Safety, Solutions for Water/Wastewater – Dave Block</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>New Technologies &amp; the Problems They Solved</th>
<th>Arbor Lakes</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 New Technologies for On-Line Analytical Work – Mike Savelli</td>
<td></td>
</tr>
<tr>
<td>9:35 New Technologies Used in Utility Locates – Joe Rubbelke</td>
<td></td>
</tr>
<tr>
<td>10:10 New Radar and Pressure Instruments for Multiple Applications – Steve McCuskey</td>
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<tr>
<td>10:45 Opworks and How It’s Solving Problems in the Control Room – Scott Schaefer</td>
<td></td>
</tr>
<tr>
<td>11:20 Odor and Corrosion Control – Mark Oberhelman</td>
<td></td>
</tr>
</tbody>
</table>
Wednesday morning

**Workplace/Personnel Strategies**  
*Minnesota Salon 1*

**Developer:** Tim Gratke

- **9:00** Finding the Next Public Servants, What Do the Data Tell Us? – Luke Greiner
- **9:40** Hutchinson TigerPath Academies: Promoting Skilled Trades in High Schools – Andrea Moore
- **10:45** Financing Options for Workplace Internships – Melanie Schroeder
- **11:00** Industry Recruitment – Wade Klingsporn
- **11:30** Wipes Clog Pipes! - Hutchinson WWTF Continued Fight Against Flushables – Tim Gratke

**Combating Climate Change**  
*Hennepin Salon 1*

**Developer:** Jennifer Thoreson, Chris Harrington

- **9:00** MPCA’s Climate Change Efforts – Aaron Luckstein
- **10:00** Duluth Historical Wet Weather – Todd Carlson
- **10:45** Combating Wet Weather – Bridget Osborn
- **11:20** Reaching Net Zero – Patrick Smith, Lindsay Anderson

**Pretreatment and Industrial Wastewater**  
*Hennepin Salon 2*

**Developer:** Jaramie Logelin, Scott Knowles

- **9:00** Brewery Wastewater – Michelle Gage
- **9:30** Getting to Know Your Industrial Users – Jessica Hedin
- **10:00** Chasing Quick Silver – What a Long Strange Trip It’s Been – Dr. Joseph M. Mayasich
- **10:30** Pond Aeration Improvements at a Sugar Beet Processing Facility – Peter Daniels, Tony Rohs
- **11:00** Windom Wash: Options for Vehicle Wash Water – Brian Schweiss

**11:30 am – Lunch, 12:00 pm – Lunch (Depending on Session)**
Class A & B Exam
Lake Michigan (Lwr Level)
Developer: Kay Curtin
12:30 Two-day review session continues.
*Must be registered separately for this session. Class is limited to 50.

Class C & D Exam
Hennepin Salon 3
Developer: Keith Redmond
12:30 Two-day review session continues.

DMRs
Arbor Lakes
Developer: Tami Dahl, Belinda Nicholas
12:30 DMR Basics – Tami Dahl
12:50 DMR Completion Guidance – Steven Speltz
1:10 Tips & Tricks – Craig Weingart
1:30 State of the State From the State – Justin Barrick
1:50 What Does the MPCA Do With DMRs? – Casey Scott
2:10 Wastewater Data Updates – Emily Schnick

Service Providers:
Elm Creek
SSTS & LSTS Certification
Amphitheater
Developer: Paul Simonsen, Nick Haig
12:30 SSTS and LSTS: Certification, Scope, and Overview – Matt Rotz
1:20 Service Provider – Open Forum – Tom Wirtzfield, Paul Simonsen

Safety & Security
Hennepin Salon 1
Developer: Kelley Janes
12:30 Electrical Safety for Operators – Kelley Janes
1:30 SCADA Cybersecurity Strategies – Anthony Pittman
Wednesday afternoon

Vendor/Professional Organization Displays

Northland Ballroom

*Developer: Annaliza Heesch, Jean Evers*

12:30 – 4:30 pm  An opportunity to discuss products and services, and view vendor demonstrations; drawing for prizes.

Refreshments will be available inside the Ballroom.

**Exhibitors as of 2/27/20:**

- ABM Equipment and Supply
- AE25
- Alden Pool
- Apex Engineering Group
- A.W. Research Laboratories, Inc.
- Bolton & Menk, Inc.
- Core & Main
- DGR Engineering
- D & H Field Services
- Dukes Root Control, Inc.
- Electric Pump
- Ess Brothers and Son’s, Inc.
- Flexible Pipe Tool Company
- General Repair
- Great Northern Environmental
- Hach Company
- Hawkins, Inc.
- Hose Pros, LLC
- HR Green, Inc.
- Kodiak Power Systems
- Local 49
- Master Electric
- MRWA
- MVTL
- Public Works Sales Holding
- Quality Flow Systems, Inc.
- R & H Painting, LLC
- Team Lab Chemical
- Tech Sales Company
- Telemetry and Process Controls, Inc.
- Thul Specialty Contracting
- Treatment Resources
- Tri-State Pump & Control, Inc.
- UC Lab
- VEGA
- Visu-Sewer, Inc.
- Waterbalance and Operation, LLC
- WSB & Associates
- W.W. Goetsch Associates
Wednesday afternoon

Meet & Greet w/MPCA Staff
Northland Hallway

1:30 – 3:30 pm
An opportunity to meet MPCA staff assigned to your region and put a face to a name, in an informal setting.

Wastewater Treatment Facility
Operational Awards
Open House
Minnesota Ballroom
Developer: Joe Braun

2:00
The MPCA’s Commissioner Office will address awardees at the opening of the ceremony.

2:10-3:00
Certificate of Commendation Award
Open House: Awards presented to all in compliance with permit requirements.
<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:00 am</td>
<td>Minnesota Salon 1, Minnesota Salon 2, Arbor Lakes, Hennepin Salon 1, Hennepin Salon 3, Elm Creek Amphitheater</td>
<td>Type IV (Biosolids) Refresher Regulations Opportunities Transitioning to a Watershed Approach New Plants/Upgrades A/B Exam Refresher C/D Exam Refresher</td>
</tr>
<tr>
<td>11:30 am</td>
<td>Mn Salon 1, Mn Salon 2, Arbor Lakes, Hennepin Salon 1, Hennepin Salon 3, Elm Creek Amphitheater</td>
<td>Lunch – Great Room</td>
</tr>
<tr>
<td>12:30 pm</td>
<td>Mn Salon 1, Mn Salon 2, Arbor Lakes, Hennepin Salon 1, Hennepin Salon 3, Elm Creek Amphitheater</td>
<td>Type IV (Biosolids) Refresher Laboratory Infrastructure Opportunities / Success Stories Pathway to a Win - Win – Win: for you, the Agency, and the Environment A/B Exam Refresher C/D Exam Refresher</td>
</tr>
<tr>
<td>4:30 pm</td>
<td></td>
<td>End of day</td>
</tr>
</tbody>
</table>
Thursday morning

### Class A & B Exam Refresher
- **Venue:** Hennepin Salon 3
- **Developer:** Kay Curtin
- **Time:** 8:00
- **Details:** Two-day session continues.

### Class C & D Exam Refresher
- **Venue:** Elm Creek Amphitheater
- **Developer:** Keith Redmond
- **Time:** 8:00
- **Details:** Two-day session continues.

### Regulations
- **Venue:** Minnesota Salon 2
- **Developers:** Cory Schultz, Paul Kimman
- **Time:**
  - 8:00: Class 3/4 WQ Standard Revision Progress Update – Steve Weiss
  - 8:45: Chloride Variances in Minnesota – Elise Doucette
  - 9:15: Revamped Release Sampling Report – Justin Barrick, Pam Rodewald
  - 9:30: Impacts and Recovery from Toxic Influent – Karen Cavett, Craig Schafer
  - 10:30: From Unsewered to Sewered: The City of DeGraff – Scott Kuhlman

### New Plants/Upgrades
- **Venue:** Hennepin Salon 1
- **Developer:** Jerry Balbach, Kelly Yahnke
- **Time:**
  - 8:00: The Path to Ultra-Low Level Phosphorus Limits: Detroit Lakes, MN – Susan Danzl, Rob Bredeson
  - 8:45: Long Prairie – The Journey of Facility Planning – Tej Bala, Jenny Olejar
  - 10:00: More Than a Motorcycle Rally: New MBR WRRF for Sturgis – Jayme Klecker, Scott Schaefer
  - 10:45: Morris WTP – Low Salt Diet: Lime & Soda Ash Softening for Chloride Reduction at the WWTP – Kris Swanson, Ryan Kotta
Opportunities Transitioning to a Watershed Approach

Developer: Norm Miranda

Thursday morning

8:00  Session Introduction – Nicole Blasing
8:10  Clean Water Act and Minnesota’s Watershed Management Framework – Dana Vanderbosch
8:40  Watershed Monitoring and Data Management – Dana Vanderbosch
9:10  Listening Session/Panel Discussion – Norm Miranda
9:55  Watershed Restoration and Protection Strategies/Watershed-wide TMDLs – Justin Watkins
10:25 One Watershed, One Plan and Local Comprehensive Plans and Implementation – Julie Westerlund
10:55 Listening Session/Panel Discussion – Norm Miranda

Type IV (Biosolids) Refresher

Developer: Sherry Bock, Rick Ashling, Adam Sekely

8:00  Welcome/Type IV Updates – Sherry Bock, Adam Sekely
8:45  The City of Marshall’s Biosolids Program - The Switch to Drag Hose – Roger Cauwels
9:15  IBP Refresher/Old vs. New Permit – Adam Sekely
10:00 Fire in Northfield’s Biosolids Processing Building – Justin Wagner
10:30 The Journey from Non-native Phragmites to Native Phragmites – Gabrielle Vanbergen, Julia Bohnen

11:30 am – Lunch
Thursday afternoon

Class A & B Exam Refresher  
**Hennepin Salon 3**  
*Developer: Kay Curtin*

12:30  Two-day session continues.

Class C & D Exam Refresher  
**Elm Creek Amphitheater**  
*Developer: Keith Redmond*

12:30  Two-day session continues.

Laboratory  
*Minnesota Salon 2*  
*Developer: Jennifer Thoreson*

12:30  Hazardous Waste Program – *Regina Small, Jason Hawksford*

1:15  Mercury Sampling and Analysis – *Linda Christensen, Chris Gross*

2:10  Total Residual Chlorine Guidance – *Jennifer Thoreson*

2:40  PFAS in Minnesota – *Carin Huset*

3:10  What’s Your Watershed Address and Quality – *Matt Lindon*

3:45  MPCA Lab Cert Coordinator – *Jennifer Thoreson*

Type IV (Biosolids) Refresher  
*Minnesota Salon 1*  
*Developer: Sherry Bock, Rick Ashling, Adam Sekely*

12:30  Type IV Land Application and Compliance – *Cory Schultz*

1:15  Biosolids Annual Reports and Site Approvals – *Sherry Bock, Cole Huggins*

2:15  Biosolids and PFAS – *Sherry Bock, Jaramie Logelin*

2:45  IBP Reporting, Reminders, Observations – *Adam Sekely*

3:15  Back to the Basics – *Sherry Bock, Adam Sekely, Cole Huggins*
Thursday afternoon

Pathway to a Win - Win –
Win: for you, the Agency, and the Environment

*Developer: Josh Gad, Chris Harrington*

- **12:30** Communicating the Permitting Process: Ways to Stay Engaged in the Permitting Process – *Holly Sandberg*
- **1:30** How to Work Proactively with the MPCA to Get Results – *Daniel Marx*
- **2:45** Point/Non-Point: Mankato’s Efforts to Trade Nutrients – *Josh Gad*
- **3:30** Fields to Filtration: Mankato’s Project to Restore Agricultural Land to a Working Wetland – *Michael McCarty*
- **4:00** What does clean water mean to you? A panel discussion on the trials and tribulations of cleaning Minnesota’s waterways – *Panel Discussion*

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Infrastructure Opportunities/Success Stories

*Developer: Cory Schultz*

- **12:30** SSOs, Wet Weather Releases and the MPCA’s Response to Them – *Brad Gillingham*
- **1:15** The Good and Bad of Sewer Maintenance – *Troy Walsh*
- **2:00** Asset Management – *Jennifer Koenig, Frank Stuemke*
- **2:45** WLSSD’s Story From Pre-Consent Decree to the Present – *Caroline Clement*
- **3:30** Panel – I&I Impacts to your Collection System and WWTP. Strategies, Struggles, & Successes – *Pam Rodewald, Phil Entner, Chad Springer, Brian Malm*
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 am</td>
<td><strong>Hot Breakfast</strong> – hallway outside Northland Ballroom</td>
</tr>
</tbody>
</table>
| 8:00 am | Maintain/Repair/Upgrade: Keeping Your Systems in Service  
 | | Stabilization Ponds  
 | | Emerging Issues  
 | | Retirement  
 | | Activated Sludge/Treatment Optimization  
 | | (7:45 Exam check-in) Certification Exams |
| 12:00 pm | **Exams end** |
| 12:00 pm | **Conference adjourns (no lunch)** |
### Friday morning

7:30 – 8:00  
Hot Breakfast in hallway outside Northland Ballroom

### Certification Exams  
*Elm Creek Amphitheater*

**Developer: Tracy Finch**

8-12:00  
Bring a non-programmable calculator, pencil and photo ID. No smartphones. Formulas are provided. See the Exam List posted at the table across from Registration to confirm your application has been accepted.

### Stabilization Ponds  
*Minnesota Salon 2*

**Developer: Pam Rodewald, Brad Gillingham**

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Presenter(s)</th>
</tr>
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<tbody>
<tr>
<td>8:00</td>
<td>Phosphorus Mass Limit Change/Calculation</td>
<td>Pam Rodewald</td>
</tr>
<tr>
<td>8:30</td>
<td>Graceville Pond Upgrade and Implementation of Service Lateral Ordinance</td>
<td>Larry Van Hout, Chad Zimmel</td>
</tr>
<tr>
<td>9:30</td>
<td>Tracy Collection System and Stabilization Pond Upgrade</td>
<td>Chris Larson</td>
</tr>
<tr>
<td>10:30</td>
<td>Optimizing Wastewater Ponds for Nutrient Removal</td>
<td>Jon Vanyo</td>
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</table>

### Activated Sludge/ Treatment Optimization  
*Hennepin Salon 1*

**Developer: Scott Schaefer**

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<tr>
<td>8:00</td>
<td>Activated Sludge to Aerobic Digestion for Construction Phasing</td>
<td>Josh Gad</td>
</tr>
<tr>
<td>8:45</td>
<td>Hutchinson WWTF Oxidation Ditch Aeration Upgrades and Optimization</td>
<td>Jennifer Svennes, Tim Gratke</td>
</tr>
<tr>
<td>10:25</td>
<td>Enhancing Nitrogen Removal With MABR: Current and Novel Technologies</td>
<td>Anndee Huff</td>
</tr>
<tr>
<td>11:10</td>
<td>Leveraging Data to Optimizing Treatment</td>
<td>Colton Janes, P.E.</td>
</tr>
</tbody>
</table>
Maintain/Repair/Upgrade: Minnesota Keeping Your Systems in Service Salon 1

Developer: Paul Christensen

8:00 Generator Maintenance & Repair – Mike Proulx
8:45 Viable Frequency Drive Basics and Maintenance – Bob Lium
9:30 Advancements in UV Technology, When Is the Right Time to Upgrade? – Matt Fritze
10:15 Chemical Feed Pump Maintenance – Andy Strand
11:00 Principles of Shaft Alignment – Lonnie Robinson

Emerging Issues Arbor Lakes

Developer: John Friel

8:00 Life Cycle Exposure of Fathead Minnows to Complex Environmental Mixtures – Chryssa King
8:30 Reducing Nitrogen in Rivers – David Wall
9:00 Equipment and Methods for Measuring TKN, N+N, and Ammonia – Mike Savelli
9:45 PFAS in Minnesota – An Update on MPCA’s Work – Liz Kaufenberg
10:15 Water Reuse in Minnesota: Next Steps – Anita Anderson
10:45 Microplastics: A New Issue of Concern for WWTFs – Judy L. Crane, Ph.D.

Retirement Northland Salon 1

Developer: Marc Weikert

8:00 MNPERA – From New Hire to Retire – Luis Argueta
9:00 Retirement Planning Basics – Steve Eilen, Kirk Soland
9:45 MSRS Pension, Deferred Compensation, and Health Care Savings – Steve Eilen, Kirk Soland
10:30 Social Security – Securing Today and Tomorrow – Brian Rudolph

12:00 – Conference adjourns
(no lunch)
Developers/Planners

Ashling, Rick – City of Albert Lea
Balbach, Jerry – MVTL
Berger, Don – MPCA St. Paul
Blasing, Nicole – MPCA Brainerd
Bock, Sherry – MPCA Brainerd
Braun, Joe – MPCA Detroit Lakes
Christensen, Paul – PeopleService
Craft, Angie – MCES
Curtin, Kay – Wisconsin Rural Water Association
Dahl, Tami – MPCA Marshall
Finch, Tracy – MPCA St. Paul
Forsythe, Steven – Electric Pump
Friel, John – SEH
Gad, Josh – City of Mankato
Gillingham, Brad – MPCA Marshall
Gratke, Tim – City of Hutchinson
Haig, Nick – MPCA St. Paul
Harrington, Chris – HR Green
Heesch, Annaliza – MPCA St. Paul
Janes, Kelley – AE2S
Kilpo, Aaron – MPCA St. Paul
Kimman, Paul – MPCA Marshall
Knowles, Scott – MPCA Duluth
Logelin, Jaramie – MPCA Duluth
McCuskey, Steve – VEGA
Miranda, Norm – CIRSSD
Nicholas, Belinda – MPCA St. Paul
Novotny, Robin – MPCA Brainerd
Posteucia, Gabe – MPCA St. Paul
Redmond, Keith – SCTCC
Rodewald, Pam – MPCA Mankato
Rotz, Matt – MPCA St. Paul
Schaefer, Scott – AE2S
Schultz, Cory – MPCA Rochester
Sekely, Adam – MPCA Brainerd
Selvog, John – Electric Pump
Simonsen, Paul – Advanced Septic Solutions, Inc.
Thoreson, Jennifer – MPCA St. Paul
Weikert, Marc – MPCA St. Paul
Yahnke, Kelly – Bolton & Menk
Yitbarek, Fasil – SEH
Speakers

Anderson, Lindsay – U of M
Argueta, Luis – PERA
Bala, Tej – Bolton & Menk
Barrick, Justin – MPCA Brainerd
Blasing, Nicole – MPCA Brainerd
Block, Dave – Electric Pump
Blumenfeld, Kenny, Ph.D. – DNR
Bock, Sherry – MPCA Brainerd
Bohnen, Julia – U of M
Borghesi, John – Jacobs
Braun, Joe – MPCA Detroit Lakes
Bredeson, Rob – City of Detroit Lakes
Carlson, Todd – City of Duluth
Cauwels, Roger – City of Marshall
Cavett, Karen – SEH
Christensen, Linda – North Shore Analytical
Christensen, Paul – PeopleService
Clement, Caroline – WLSSD
Crane, Judy L., Ph.D. – MPCA St. Paul
Dahl, Tami – MPCA Marshall
Daniels, Peter – Wenck Associates
Danzl, Susan – SEH
Doucette, Elise – MPCA St. Paul
Eilen, Steve – MSRS
Entner, Phil – City of Moose Lake
Fritze, Matt – Great Northern Environmental
Gad, Josh – City of Mankato
Gage, Michelle – MnTAP
Gillingham, Brad – MPCA Marshall
Gratke, Tim – City of Hutchinson
Greiner, Luke – Dept of Employment and Economic Development
Gross, Chris – North Shore Analytical
Haig, Nick – MPCA St. Paul
Hawksford, Jason – MPCA St. Paul
Hedin, Jessica – SEH
Heimerl, Troy – JWC Environmental
Speakers

Huff, Anndee – U of M
Huggins, Cole – MPCA Brainerd
Huset, Carin – MDH
Janes P.E., Colton – AE2S
Janes, Kelley – AE2S
King, Chryssa – SCSU
Klecker, Jayme – AE2S
Klingsporn, Wade – Vermillion Community College
Koenig, Jennifer – MRWA
Kotta, Ryan – Bolton & Menk
Krukowski, Mike – Department of Public Safety
Kuhlman, Scott – Bollig Engineering
Larson, Chris – ISG Engineering
Lindon, Matt – MPCA St. Paul
Lium, Bob – Ideal Service, Inc.
Logelin, Jaramie – MPCA Duluth
Luckstein, Aaron – MPCA Rochester
Malm, Brian – Bolton & Menk
Marx, Daniel – Flaherty & Hood
Mayasich, Joseph M. Dr. – WLSSD
McCarty, Michael – City of Mankato
McCuskey, Steve – VEGA
Miranda, Norm – CIRSSD
Moore, Andrea – Hutchinson Schools
Novotny, Robin – MPCA Brainerd
Oberhelman, Mark – Hawkins Chemical
Olejar, Jenny – Bolton & Menk
Osborn, Bridget – HR Green
Pittman, Anthony – AE2S
Proulx, Mike – Kodiak Power Systems
Redmond, Keith – SCTCC
Robinson, Lonnie – ACOEM
Rodewald, Pam – MPCA Mankato
Rotz, Matt – MPCA St. Paul
Rubbelke, Joe – Utility Logic
Rudolph, Brian – Social Security Administration
Speakers

Sandberg, Holly – MPCA Detroit Lakes
Savelli, Mike – Hach Company
Schaefer, Scott – AE2S
Schnick, Emily – MPCA St. Paul
Schroeder, Melanie – Central Minnesota Jobs & Training Services, Inc.
Schultz, Cory – MPCA Rochester
Schweiss, Brian – MPCA St. Paul
Scott, Casey – MPCA Rochester
Sealock, Adam – MCES
Sekely, Adam – MPCA Brainerd
Small, Regina – MPCA St. Paul
Smith, Patrick – U of M
Speltz, Steven – MPCA Rochester
Springer, Chad – City of Wabasha
Strand, Andy – Hawkins, Inc.
Stuemke, Frank – MRWA
Svennes, Jennifer – Nero Engineering
Swanson, Kris – Bolton & Menk
Thoreson, Jennifer – MPCA St. Paul
Tuel, Michael – Vapex Environmental
Van Hout, Larry – WSN
Vanbergen, Gabrielle – Red Cliff Band of Lake Superior Chippewa
Vanderbosch, Dana – MPCA St. Paul
Vanyo, Jon – U of M
Wagner, Justin – City of Northfield
Wall, David – MPCA St. Paul
Walsh, Troy – LMC
Watkins, Justin – MPCA Rochester
Weingart, Craig – MPCA Duluth
Weiss, Steve – MPCA St. Paul
Westerlund, Julie – BWSR
Wirtzfield, Tom – Advanced Septic Solutions, Inc.
Yahnke, Kelly – Bolton & Menk
Zimmel, Chad – Graceville Public Works