



E-Enterprise for the Environment

# EE2018

Powered by the Exchange Network

Shared Stories, Shared Services, Shared Successes

Final Agenda  
2018 E-Enterprise for the Environment National Meeting  
October 23-25, 2018  
Addison, Texas  
#EE2018Mtg

**Monday, October 22, 2018**

6:00pm- 7:00pm **Pre-Registration** **Malachite Foyer**

**Tuesday, October 23, 2018**

7:00am **Registration** **Malachite Foyer**

7:00am **Continental Breakfast (provided)** **Garden Court III**

8:00am- 11:45am **Choose Your Own Adventure**  
The choice is yours! Attend one of the following concurrent activities: 1) Training Sessions or 2) Concurrent Discussion Sessions. See below for more details on each option.

**Option 1: Training Sessions**

Agile Project Management	Lean Management and Process Improvement Part I & Part II
<p>Moderators: Pamela Robb, <i>MetroStar Systems</i>; Jerry Zeitler, <i>MetroStar Systems</i></p> <p>Attendees will receive professional training in principles and best practices of Agile project management. This interactive training session will use games and group work to explain the history of Agile methodologies, the Agile manifesto and principles, and the elements of the Scrum framework.</p>	<p>Moderator: Bert Kovacs and Kelton Kosik, <i>Accenture</i></p> <p>Attendees will receive professional training in principles and best practices of Lean Management and Process Improvement. You can expect a Lean 101 class that includes tips on identifying the processes in your organization which would benefit from Lean and best practices on how to conduct a Lean workshop.</p>

**Tuesday, October 23, 2018 (continued)**

**Option 2: Concurrent Discussion Sessions**

As an alternative to the Option 1 Training Sessions, attendees may select from this series of concurrent working sessions, roundtable discussions, and strategy meetings.

**8:00am- 9:30am First Concurrent Discussion Sessions**

<b><u>Return on Investment Toolkit Workshop</u></b>	<b><u>How the Facility Registry System Supports E-Enterprise</u></b>	<b><u>Tribal Technical Exchange Network Session</u></b>
<p>Speakers: David Nicholas, <i>U.S. EPA, Office of Land &amp; Emergency Mgmt.</i>; Cindy Manson and Vadim Spirt, <i>Industrial Economics, Inc.</i></p> <p>Get trained in using a new toolkit that helps organizations estimate the Return on Investment (ROI) from technology projects and process improvement efforts.</p>	<p>Moderators: Susan Joan Smiley Baker, <i>U.S. EPA Office of Environmental Information</i>; Kimberly Hoke, <i>CGI Federal</i></p> <p>This session will offer an overview of the basics of EPA's Facility Registry Service (FRS) and how integrated facility information benefits you and E-Enterprise.</p>	<p>Moderator: Lydia Scheer, <i>Institute for Tribal Environmental Professionals</i></p> <p>Presenters: Frank Harjo, <i>Muscogee (Creek) Nation</i>; Bruce Jones, <i>Northwest Indian Fisheries Commission</i>; Linda Rosas-Bill, <i>Habematolel Band of Upper Lake Pomo</i>; April Hathcoat, <i>Cherokee Nation</i>; BryAnna Vaughan, <i>Bishop Paiute Tribe</i>; Darold Wallick, <i>Pala Band of Mission Indians</i></p> <p>The Exchange Network's Tribal Governance Group (TGG) members will share updates on current EN initiatives, as well as related resources, activities, and other support specifically for tribes. The TGG seeks to engage session participants in discussions of their experiences, ideas, and other feedback on increasing and sustaining tribal involvement in the Exchange Network. This session is open to all attendees.</p>

**9:30am Networking Break and Exhibit Space**

Drop by the networking and exhibit space to learn more about projects happening across the E-Enterprise and Exchange Network community. Use this time to connect with your colleagues and share your knowledge, challenges, and success stories with one another.

**Garden Court III**

**Tuesday, October 23, 2018 (continued)**

**10:15am- 11:45am Second Concurrent Discussion Sessions**

<b><u>Shared Services Workshop Part I &amp; Part II</u></b>	<b>Sharing Business Solutions</b>	<b><u>Exchange Network Grants Discussion</u></b>
<p>Moderators: Greg Mitchell and Charles Freeman, <i>U.S. EPA Office of Environmental Information</i></p> <p>Set up your own CROMERR Compliant application, in minutes, with a quick demo and hands-on support for Advanced Shared CROMERR Services. Also learn how you can quickly set up a Virtual Exchange. A Virtual Exchange Services presentation will explain the benefits and just how easy a virtual exchange is to set them up.</p>	<p>Moderator: Rob Willis, <i>Ross Strategic</i></p> <p>Wondering how other agencies are meeting needs in business areas like document management, permitting, inspections, and fee management? Join this open discussion to share your solutions, learn how to keep the conversation going with the E-Enterprise Community Inventory Platform, and help us learn how to best support sharing and collaboration between you and your colleagues. Bring your laptop, tablet, or smartphone.</p>	<p>Moderator: Wendy Blake Coleman, <i>U.S. EPA Office of Environmental Information</i></p> <p>Learn about the Exchange Network Grant Program—a critical resource supporting state, tribal, and territorial innovation and shared services implementation. A brief presentation will cover the upcoming FY 2019 solicitation notice, common mistakes to avoid when preparing an application, followed by open discussion and opportunities for one-on-one questions and answers.</p>

**11:45am- 1:15pm Lunch Break** – Attendees are free to visit the hotel restaurant or restaurants nearby

**General Session Malachite Showroom**

[View Webcast](#)

**1:15pm Kickoff of EE2018—Powered by the Exchange Network**  
Victoria Phillips, *Massachusetts Dept. of Environmental Protection*

[View Webcast](#)

**1:35pm Welcome to Texas**  
David Gray, Deputy Regional Administrator, *U.S. EPA Region 6*

[View Webcast](#)

**1:45pm [Leading Transformation: Setting the Vision for E-Enterprise for the Environment](#)**

A conversation with the E-Enterprise Leadership Council Chairs moderated by Victoria Phillips, *Massachusetts Dept. of Environmental Protection*

Micco Emarthla, *Seneca-Cayuga Nation*  
Jim Macy, Director, *Nebraska Dept. of Environmental Quality*

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**2:15pm Keynote Address**

**A View from Space: Perspectives on the Environment, Collaboration, and Innovation**

Dr. Rick Linnehan, *Astronaut, National Aeronautics and Space Administration*

Dr. Linnehan will discuss his experiences as a NASA astronaut during his 5 missions and 59 days in space and how collaboration and innovation were the cornerstones of a successful mission.

**3:15pm Networking Break and Exhibit Space**

**Garden Court III**

**Tuesday, October 23, 2018 (continued)**

**3:45pm [Creating a Culture That is Ready for Anything](#)**

Leigh McMullen, *Gartner*

The only thing that is certain about the digital future is that enterprises will be required to transform quickly and often. But most enterprise transformations fail because of their culture. Take the challenge of continuous transformation and turn it to your advantage by developing a culture that is ready for anything.

[View Webcast](#)

**4:45pm E-Enterprise Community Inventory Platform**

Chris Simmers, *New Hampshire Dept. of Information Technology*

Owen McAleer, *Environmental Council of the States*

The EECIP is an online community and living project inventory for environmental agencies and their employees across the U.S. Members of the project team will give a brief presentation on the tool and lead an interactive demo. Bring your laptop or mobile device!

[View Webcast](#)

**5:05pm [Public Service Announcement: EPA Research Website and Science Inventory Part I, Part II, & Part III](#)**

Christopher Robbins, *U.S. EPA Office of Research and Development*

EPA's research website ([www.epa.gov/research](http://www.epa.gov/research)) provides seamless access to a wealth of Agency scientific and technical information, data, research products and tools. Research impacts and partnerships are highlighted for each state across the country. EPA's Science Inventory ([www.epa.gov/science](http://www.epa.gov/science)) is an extensive, searchable database of scientific and technical products from the Agency's world-class researchers and their partners, including thousands of published articles from the leading peer-reviewed scientific and technical journals.

**5:15pm Adjourn**

**Wednesday, October 24, 2018**

7:30am     **Registration**     **Malachite Foyer**

7:30am     **Continental Breakfast (provided)**     **Garden Court III**

**General Session**     **Malachite Showroom**

[View Webcast](#)

8:30am     **Day 2 Welcome**  
Chet Wayland, *U.S. EPA Office of Air & Radiation*

[View Webcast](#)

8:45am     **Artificial Intelligence and Machine Learning: Opportunities & Challenges for Innovation in Environmental Protection Part I, Part II, & Part III**  
Artificial Intelligence and Machine Learning have the potential to transform environmental protection. The convergence of these technologies with advances in internet-connected sensors and measurement tools could open up possibilities for driving better environmental results and streamlining regulatory processes. But where can agencies think about deploying AI? How to begin? And what is AI anyway? Our panelists will explain some fundamental concepts of Artificial Intelligence, explore potential use cases, and confront some of the challenges of applying AI to environmental protection.

Moderator: Kristen Durance, *Ross Strategic*  
Panelists: Bhavish Madurai, *IBM*  
              Stephen Forrest, *Montana Department of Environmental Quality*  
              Kristen Benedict, *U.S. EPA Office of Air & Radiation*  
              Dwane Young, *U.S. EPA Office of Water*

10:15am     **Networking Break and Exhibit Space**     **Garden Court III**

**Wednesday, October 24, 2018 (continued)**

**Concurrent Sessions**

10:45am Sessions 1, 2, and 3

Track 1: Modernizing Programs	Track 2: Data and Technology Innovations	Track 3: Better Living Through Shared Services
<p><b>Modernizing Inspections</b></p> <p style="text-align: center;"><a href="#"><u>View Webcast</u></a></p> <p>Moderator: Kelly Crawford, <i>Washington, DC DOEE</i></p> <ul style="list-style-type: none"> <li>• <a href="#"><u>E-Enterprise Smart Tools for Inspectors Project</u></a> Lauren Jones, <i>U.S. EPA Office of Enforcement &amp; Compliance Assurance</i>; Chris Simmers, <i>New Hampshire Dept. of Information Technology</i></li> <li>• <a href="#"><u>Region 5 App Development</u></a> Mardi Klevs, Scott Bessler, &amp; Christina Saldivar, <i>U.S. EPA Region 5</i> U.S. EPA Region 5 developed three mobile applications using two different platforms to increase inspection efficiency, decrease the burden of data collection and analysis, and to improve communication with Region 5’s state and local partners.</li> <li>• <a href="#"><u>Alabama’s Experience with Electronic Inspections</u></a> Eric Cleckler, <i>Alabama Dept. of Environmental Management</i> In 2014, Alabama DEM undertook a project to implement electronic inspection forms for NPDES inspections. In 2017, ADEM won an ECOS award for the project based on field staff estimates of 30% increased efficiency.</li> </ul>	<p><b>Challenges and Opportunities Implementing Open Data Programs</b></p> <p style="text-align: center;"><a href="#"><u>View Webcast</u></a></p> <p>Moderator: Virginia Thompson, <i>U.S. EPA Region 3</i></p> <ul style="list-style-type: none"> <li>• <a href="#"><u>Open Data Overview and Implementation Considerations Part I &amp; Part II</u></a> Ewan Simpson, <i>Socrata</i></li> <li>• <a href="#"><u>Examples and Case Studies from Environmental Agencies and Beyond Part I &amp; Part II</u></a> Mike Mahaffie, <i>Delaware Dept. of Natural Resources &amp; Environmental Control</i>; Eric Brown, <i>Colorado Dept. of Public Health &amp; Environment</i></li> <li>• <b>Open Discussion</b> How might a move toward open data change the way environmental agencies do business? How could E-Enterprise and the Exchange Network accelerate adoption of open data programs and standards development?</li> </ul>	<p><b>E-Enterprise Digital Strategy, Architecture, and Technology Roadmap</b></p> <p>Moderator: Louis Sweeny Contributors: Vince Allen, <i>U.S. EPA Office of Water</i>; Andy Putnam, <i>Colorado Dept. of Public Health &amp; Environment</i>; Angie Reed, <i>Penobscot Nation</i></p> <p>As the E-Enterprise and the Exchange Network community looks to the future of environmental protection, we need a strategy that describes where we want to go and how we will get there together. This session will provide a quick overview of some current work, and then move into an interactive design exercise. The results will feed directly into the development of a forward-looking digital strategy and an architecture for E-Enterprise and the Exchange Network. You are our customer, we need your voice.</p>

12:15pm-1:45pm **Lunch Break** – Attendees are free to visit the hotel restaurant or restaurants nearby

Wednesday, October 24, 2018 (Continued)

**Concurrent Sessions**

1:45pm Sessions 4, 5, and 6

Track 1: Modernizing Programs	Track 2: Data and Technology Innovations	Track 3: Better Living Through Shared Services
<p><b>Permitting Innovations and Streamlining</b>  <a href="#">View Webcast</a></p> <p>Moderator: Bob Zimmerman, <i>Delaware Dept. of Natural Resources &amp; Environmental Control</i></p> <p>Attendees will hear about three approaches to modernizing permitting processes focusing on customer experience and use of electronic applications.</p> <ul style="list-style-type: none"> <li>• <a href="#">Permitting Assistance and Permitting Transformation Project</a>            Marcia Allocco, <i>North Carolina Dept. of Environmental Quality</i></li> <li>• <a href="#">Implementing an ePermitting Solution in South Carolina</a>            Michael Sheehan, <i>South Carolina Dept. of Health and Environmental Control</i>; John Kostakos, <i>Windsor Solutions</i></li> <li>• <a href="#">Managing and Reviewing Draft Clean Air Act Permits Using EPA’s Electronic Permit System (EPS)</a>            Bamikole Ogundele, <i>U.S. EPA Region 9</i>; Eugene Chen, <i>U.S. EPA Region 9</i></li> </ul>	<p><b>Using APIs to Support Environmental Programs</b>  <a href="#">View Webcast</a></p> <p>Speakers: Dwane Young, <i>U.S. EPA Office of Water</i>; Brad Cooper, <i>ERG</i>; Dave Wilcox, <i>Gold Systems</i></p> <p>This session will feature a discussion about Application Programming Interfaces (APIs). We’ll cover some basics of how they work and the benefits they can offer to environmental agencies, staff, and the public. The discussion will also explore two examples in which U.S. EPA’s Office of Water is using APIs to improve the flexibility and quality of its service offerings for states, tribes, and other stakeholders. These include:</p> <ul style="list-style-type: none"> <li>• <a href="#">How’s My Waterway</a>: Leveraging APIs to communicate to the public</li> <li>• <a href="#">WQX Web Rest API</a>: A new, more flexible method for submitting to WQX</li> </ul>	<p><b>Integrating Facility Information Shared Services: Handle with CAER</b>  <a href="#">View Webcast</a></p> <p>Moderator: Charles Freeman, <i>U.S. EPA Office of Environmental Information</i></p> <p>There is considerable E-Enterprise progress in developing an integrated approach to facility information across regulatory partners. This session covers accomplishments and highlights future work. The second part of this interactive session focuses on Combined Air Emission Reporting (CAER) and how that project will leverage integrated facility information to streamline emissions reporting, saving time and resources for industry, state and EPA staff.</p> <ul style="list-style-type: none"> <li>• <a href="#">E-Enterprise Facility Data Integration Team</a>            Susan Joan Smiley Baker, <i>U.S. EPA Office of Environmental Information</i>; Joshua Kalfas, <i>Oklahoma Dept. of Environmental Quality</i>; Benjamin Way, <i>Wyoming Dept. of Environmental Quality</i>; Ron Evans, <i>U.S. EPA Office of Air &amp; Radiation</i></li> <li>• <b>Combined Air Emissions Reporting Project: the “Common Form”</b>            Julia Gamas, <i>U.S. EPA Office of Air &amp; Radiation</i></li> </ul>

3:15pm Networking Break and Exhibit Space

Garden Court III



**Wednesday, October 24, 2018 (Continued)**

**Concurrent Sessions**

3:45pm Sessions 7, 8, and 9

Track 1: Modernizing Programs	Track 2: Data and Technology Innovations	Track 3: Better Living Through Shared Services
<p><b>Better Processes for Better Environmental Results</b></p> <p style="text-align: center;"><a href="#"><u>View Webcast</u></a></p> <p>Moderator: Anthony DeLoach, <i>U.S. EPA Region 8</i></p> <ul style="list-style-type: none"> <li>• <b>Nebraska Process Improvement and Online Services</b> Dennis Burling and Doug Barry; <i>Nebraska Dept. of Environmental Quality</i></li> <li>• <a href="#"><u>Experiences with Process Improvement for Asbestos NESHAP</u></a> Debra Forman, <i>U.S. EPA Region 3</i>, Nathan Wilkes, <i>U.S. EPA Office of Environmental Information</i></li> <li>• <a href="#"><u>Using Shared Governance in Leaning the Quality Assurance Project Plan Process</u></a> Vincia Holloman, <i>U.S. EPA Office of Environmental Information</i>; Jessica Snyder, <i>U.S. EPA Office of the Chief Financial Officer</i></li> </ul>	<p><a href="#"><u>Harnessing the Power of New Information and Measurement Tools – An Open Discussion Part I &amp; Part II</u></a></p> <p style="text-align: center;"><a href="#"><u>View Webcast</u></a></p> <p>Moderator: Ron Evans, <i>U.S. EPA Office of Air &amp; Radiation</i> Speakers: Kristen Benedict, <i>U.S. EPA Office of Air &amp; Radiation</i>; Dwane Young, <i>U.S. EPA Office of Water</i></p> <p>This session will be broken into two parts. The first will feature an overview on the current state of air and water sensors followed by updates from E-Enterprise teams working on:</p> <ul style="list-style-type: none"> <li>• Advanced sensors and standards for measuring environmental conditions</li> <li>• Approaches to managing, sharing, and interpreting data from new measurement tools and sensors</li> </ul> <p>The second part will engage attendees in an open discussion to explore future development questions:</p> <ul style="list-style-type: none"> <li>• How do we integrate disparate data sets?</li> <li>• What is the role of the cloud and machine learning?</li> <li>• What partnerships should we pursue?</li> <li>• How do we overcome communication challenges?</li> <li>• QA/QC needs and data analysis tools</li> </ul>	<p><b>Shared Services for E-Reporting</b></p> <p style="text-align: center;"><a href="#"><u>View Webcast</u></a></p> <p>Moderator: Hope Kosier, <i>U.S. EPA Office of Environmental Information</i></p> <p>Join us for an open discussion on shared service development, implementation and use. Our panel will share highlights of three, high-profile, broad-reaching solutions developed for E-Enterprise use: SPeCS for SIPS and MOSAIC, NPDES e-Reporting, and eManifest. Whether you're interested in developing your own shared service or looking to take advantage of EPA's offerings, this session will give you an opportunity to learn what it takes to make a shared service a success.</p> <ul style="list-style-type: none"> <li>• <a href="#"><u>NPDES e-Reporting</u></a> Joe Carioti, <i>U.S. EPA Office of Enforcement &amp; Compliance Assurance</i></li> <li>• <a href="#"><u>e-Manifest</u></a> Stephen Donnelly, <i>U.S. EPA Office of Land &amp; Emergency Management</i></li> <li>• <a href="#"><u>MOSAIC and SPeCS for SIPS</u></a> Mia South, <i>U.S. EPA Office of Air &amp; Radiation</i>; Tom Wible, <i>CGI Federal</i></li> </ul>

5:30pm Adjourn



**Thursday, October 25, 2018**

7:30am Continental Breakfast (provided)

Garden Court III

**Concurrent Sessions**

8:30am Sessions 10, 11, and 12

Track 1: Modernizing Programs	Track 2: Data and Technology Innovations	Track 3: Better Living Through Shared Services
<p><b>Innovations in Water Monitoring Programs</b></p> <p style="text-align: center;"><a href="#">View Webcast</a></p> <p>Moderator: Eric Cleckler, <i>Alabama Dept. of Environmental Management</i></p> <ul style="list-style-type: none"> <li>• <b><a href="#">NAEPC’s Implementation of AWQMS Cloud Service</a></b> Jill Sherman-Warne, <i>Native American Environmental Protection Coalition</i>; Mark LeBaron, <i>AWQMS/Gold Systems</i></li> <li>• <b><a href="#">Bishop Paiute Digital Transformation</a></b> Bryanna Vaughan, <i>Bishop Paiute Tribe</i>; Mark LeBaron, <i>Gold Systems</i> Learn how the Bishop Paiute Tribe has modernized their approach to capturing, tracking, validating, analyzing, and sharing water quality data.</li> <li>• <b><a href="#">Water Quality Data Collection Mobile App</a></b> Abigail Welch, <i>Port Gamble S’Klallam Tribe</i>; Maki Dalzell, <i>HDR Inc.</i> The Port Gamble S’Klallam Tribe streamlined their water quality data collection process with a mobile application that is user friendly and reliable in field conditions. We will share our development process and demo the application.</li> </ul>	<p><b>Technology Platforms and Tools for Developers</b></p> <p style="text-align: center;"><a href="#">View Webcast</a></p> <p>Moderator: Connie Dwyer, <i>U.S. EPA Office of Environmental Information</i></p> <ul style="list-style-type: none"> <li>• <b><a href="#">Future of EPA’s Shared Services Technology Platform</a></b> Steve Newman, <i>U.S. EPA Office of Environmental Information</i> A presentation of EPA’s 5-year Mission Shared Services initiative, a notional architecture, and some early technology components being considered. <ul style="list-style-type: none"> <li>• API Management</li> <li>• Service Catalog and Code Sets</li> </ul> </li> <li>• <b><a href="#">Story Maps for Communication &amp; Collaboration</a></b> Lee Pera, <i>U.S. EPA Office of Environmental Information</i> A presentation about EPA’s use of Story Maps for communicating our work and examples of collaboration with states and tribes.</li> <li>• <b><a href="#">Data Platform – Analytical Tools &amp; Models</a></b> Julie Kocher, <i>U.S. EPA Office of Environmental Information</i> A review of EPA’s new and evolving platform to support data analytics, models and visualization.</li> </ul>	<p><b>E-Enterprise Shared Services Showcase</b></p> <p style="text-align: center;"><a href="#">View Webcast</a></p> <p>Moderator: Jessica Snyder, <i>U.S. EPA Office of the Chief Financial Officer</i></p> <p>Come learn about tools that can help communities and regulated entities respond to disasters and comply with regulations. This session will include demonstrations and allow audience members to ask questions and share input as we look to build and enhance tools and services.</p> <ul style="list-style-type: none"> <li>• <b><a href="#">Disaster Debris Recovery Tool: Mapping recyclers and landfills to plan for the safe and sustainable recovery of disaster debris</a></b> Camille Lukey and Lucy Stanfield, <i>U.S. EPA Region 5</i></li> <li>• <b><a href="#">Federal Regulation Finder: Navigating regulations using shared data services</a></b> John Harman and Angelina Feldman, <i>U.S. EPA Office of Environmental Information</i></li> <li>• <b><a href="#">E-Enterprise Portal</a></b> Laura Letson, <i>U.S. EPA Office of Environmental Information</i>; Thom Waller, <i>Ohio EPA</i>; Chris Simmers, <i>New Hampshire Dept. of Information Technology</i>; Shana Harbour, <i>U.S. EPA Office of the Chief Financial Officer</i>; Steve Girt, <i>Wyoming Dept. of Environmental Quality</i></li> </ul>

10:00am Networking Break

Garden Court III

**Thursday, October 25, 2018 (continued)**

**Closing General Session**

**Malachite Showroom**

[View Webcast](#)

**10:30am General Session Kickoff**  
Micco Emarthla, *Seneca-Cayuga Nation*

[View Webcast](#)

**10:45am A Conversation with the E-Enterprise/Exchange Network Governance**  
The E-Enterprise and Exchange Network governance members want to hear from you! A panel of representatives from the governing groups will take questions and ask for feedback from the audience on your priorities, issues, and ideas to make E-Enterprise and the Exchange Network even more valuable for you and your organization.

Moderator: Rob Willis, *Ross Strategic*

Panelists: Vince Allen, *U.S. EPA Office of Water*; Charles Freeman, *U.S. EPA Office of Environmental Information*; Shana Harbour, *U.S. EPA Office of the Chief Financial Officer*; Frank Harjo, *Muscogee (Creek) Nation*; April Hathcoat, *Cherokee Nation*; Victoria Phillips, *Massachusetts Dept. of Environmental Protection*; Andy Putnam, *Colorado Dept. of Public Health & the Environment*

[View Webcast](#)

**11:45am Meeting Wrap Up**  
EE2018 Tri-Chairs – Micco Emarthla, *Seneca-Cayuga Nation*; Victoria Phillips, *Massachusetts Dept. of Environmental Protection*; Chet Wayland, *U.S. EPA Office of Air & Radiation*

**12:00pm Adjourn**