

# Agenda

## Air-Operated Valve Users' Group Annual Meeting

**Theme: AOV Performance Monitoring, Preventive  
Maintenance, & Obsolescence**

January 16—18, 2008  
Contemporary Resort & Conference Center  
Orlando, Florida, USA

### Monday, January 14, 2008

7:00 AM – 5:30 PM	<b>AUG/CANUG/FLMUG Conference Early Registration</b>	West Registration Desk
8:00 AM – 5:00 PM	Air Purification Training Seminar (CANUG Agenda on Attachment #1)	Fantasia M
8:00 AM -- 5:00 PM	Fluid Leak Management Users Group (FLMUG) Meeting (Attachment #2)	Fantasia J

### Tuesday, January 15, 2008

7:00 AM – 5:30 PM	<b>AUG/CANUG/FLMUG Conference Early Registration</b>	West Registration Desk
8:00 AM – 5:00 PM	Air Purification Training Seminar (CANUG Agenda on Attachment #1)	Fantasia M
8:00 AM -- 5:00 PM	Fluid Leak Management Users Group (FLMUG) Meeting (Attachment #2)	Fantasia J
8:00 AM – 4:30 PM	USA-STARs AOV Team Meeting Information (Attachment #3)	Fantasia K/L

**Wednesday, January 16, 2008**

7:00 AM – 4:30 PM	<b>Registration Desk Open</b>		<u>West Registration Desk</u>
7:00 – 8:00 AM	<b>Continental Breakfast (Conference or Exhibitor Badge Required)</b>		<u>Exhibit Hall</u>
7:30 – 8:00 AM	New AUG Attendees Orientation	<i>Marie Murphy &amp; Bill Bowyer</i>	<u>Fantasia K</u>

<i>McGehearty/Scoggins</i>	<b>AUG/MUG/CANUG Combined Session</b>	<i>(open to ALL registered attendees)</i>
----------------------------	---------------------------------------	---

8:00 – 8:05 AM	Opening Remarks/Introductions	<i>Mike McGehearty/Tim Scoggins</i>	<u>Fantasia H/J</u>
<b>8:05 – 9:30 AM</b>	<b>KEYNOTE SPEAKER – Chong Chiu, PhD</b> <i>President, Performance Improvement International</i> <b>Topic: “Root Cause Investigation of a Pipe Rupture at the Iatan Power Plant”</b>		
<b>9:30 – 10:00 AM</b>	<b>Morning Break</b>		<u>Exhibit Hall</u>
10:00 – Noon	Valve Packing with Equipment Reliability (PMs)	<i>Ken Hart (Susquehanna)</i>	<u>Fantasia H/J</u>
<b>Noon – 1:30 PM</b>	<b>Hosted Lunch &amp; Networking Break</b>	<i>(Included with registration fee.)</i>	<u>Exhibit Hall</u>

<i>Murphy/Price</i>	<b>AUG General Session # 1</b>	<u>Fantasia H/J</u>
---------------------	--------------------------------	---------------------

1:30 – 2:00 PM	INPO AOV Performance Update/Q&A Session	<i>Gary Peet (INPO)</i>	
2:00 – 2:30 PM	Diablo Canyon Quarterly Valve Meeting	<i>Jim Tarkowski (Diablo Canyon)</i>	
<b>2:30 – 3:00 PM</b>	<b>Afternoon Break</b>		<u>Exhibit Hall</u>
3:00 – 4:30 PM	Elastomers Training and Q&A/Feedback Session	<i>Meredith Bell (Fisher)</i>	
<b>4:30 – 6:30 PM</b>	<b>Welcome Reception &amp; Exhibitor Displays</b>		<u>Exhibit Hall</u>
<b>6:30 – 10:00 PM</b>	<b>Hospitality Events</b>		<u>Check Signs</u>

## Thursday, January 17, 2008

7:00 AM – 4:30 PM	<b>Registration Desk Open</b>	<b>West Registration Desk</b>
7:00 – 8:00 AM	<b>Continental Breakfast (Conference or Exhibitor Badge Required)</b>	<b>Exhibit Hall</b>
<i>Foster/Willie</i>	<b>AUG General Session # 2</b>	Fantasia H/J
8:00 – 8:30 AM	Packing Configuration Alternatives for Small Stem Diameters on AOVs <i>B. Igel (TSP), S. Antle (AECL) &amp; J. Aikin (Schyan TS)</i>	
8:30 – 9:30 AM	Trace Analysis Competition	ALL
<b>9:30 – 10:00 AM</b>	<b>Morning Break</b>	<b>Exhibit Hall</b>
10:00 – 10:10 AM	Steering Committee Elections	<i>(One vote per power plant/processing plant)</i>
10:10 – 11:00 AM	Trace Analysis Competition (continued)	ALL
11:00 – 11:30 AM	(1) AOV Data Records for Setpoint Control & Test Evaluation (2) Main Feedwater Regulating Valve Packing Improvements	<i>Vic Rizzo (Indian Point) Vic Rizzo (Indian Point), Eric Solla (Teledyne)</i>
11:30 AM – Noon	AOV Obsolescence – Miller Air Cylinders – A Case Study	<i>Bilal Khayyat (Columbia)</i>
<b>Noon – 1:30 PM</b>	<b>Hosted Lunch &amp; Networking Break</b>	<i>(Included with registration fee.)</i> <b>Exhibit Hall</b>

<i>Lanier/Price &amp; Bowyer/Croxton</i>	<b>AUG Committee Sessions</b>	
1:30 – 3:00 PM	Maintenance & Testing Session <i>Randy Croxton (Palo Verde), Bill Bowyer (SNC)</i> Engineering & Design Session <i>Inman Lanier (FPL)</i> <b>(Note: These groups will meet jointly for the presentations and separately after the Break.)</b> <ul style="list-style-type: none"> <li>• Simple Rebuild Error on Non-Modulating AOV <span style="float: right;">JR</span> Price (STP)</li> <li>• Turkey Point Heater Drain Analog Control Revamp <span style="float: right;">Inman Lanier (FPL)</span></li> <li>• AOV Packing Improvements/Test Results for the AP Style 5718/5000 Packing System <span style="float: right;">Doug Van Tassell (AP Services) &amp; Shea Antle (AECL)</span></li> <li>• Lambda Tuning <span style="float: right;">Norman Ito (Emerson)</span></li> </ul>	<b>Fantasia H/J</b>
<b>3:00 – 3:30 PM</b>	<b>Afternoon Break</b>	<b>Exhibit Hall</b>
3:30 – 4:30 PM	Maintenance & Testing Session <i>Randy Croxton (Palo Verde), Bill Bowyer (SNC)</i> <ul style="list-style-type: none"> <li>• <b>Open Discussion:</b> Tubing fatigue failures, diagnostic testing &amp; analysis, valve packing, actuator maintenance, valve maintenance, industry operating experience, improved maintenance techniques, positioners, I/Ps, boosters, etc.</li> </ul>	<b>Fantasia H</b>
3:30 – 4:30 PM	Engineering & Design Session <i>Inman Lanier (FP&amp;L)</i> <ul style="list-style-type: none"> <li>• <b>Open Discussion:</b> Calculation assumption surprises, setpoint control translation, quarter-turn bearing coefficients, Kalsi/EPRI issue, margin &amp; reconciliation, dynamic testing, trending--how &amp; what parameters, tubing fatigue failures, packing data feedback from testing, etc.</li> </ul>	<b>Fantasia J</b>
<b>4:30 – 6:30 PM</b>	<b>Reception &amp; Exhibitor Displays</b>	<b>Exhibit Hall</b>
<b>6:30 – 10:00 PM</b>	<b>Hospitality Events</b>	<b>Check Signs</b>

## Friday, January 18, 2008

7:00 AM – Noon      **Registration Desk Open**      West Registration Desk

7:00 – 8:00 AM      **Continental Breakfast (Conference or Exhibitor Badge Required)**      Fantasia Lobby

<i>Alexander/Marsh</i>	<b>AUG General Session # 3</b>	Fantasia J
------------------------	--------------------------------	------------

8:00 – 8:30 AM      Solenoid Valve Diagnostics      *Steve Gatcomb (Valcor)/George Smith (Crane)*

8:30 – 9:00 AM      Vogtle Steam Dump Upgrades      *Bill Bowyer (SNC)/Tom Christian (Enertech)*

9:00 – 9:30 AM      Task Proficiency Evaluation      *Don Cullers (EPRI)*

9:30 – 10:00 AM      Committee/Breakout Session Summary Reports

- Maintenance & Testing      *Randy Croxton (Palo Verde) & Bill Bowyer (SNC)*
- Engineering & Design      *Inman Lanier (FPL)*
- Fluid Leak Management Users Group (FLMUG)      *Jim Tarkowski (Diablo Canyon)*
- Compressed Air Nuclear Users Group (CANUG)      *Bill Eister (Oconee)*

**10:00 – 10:30 AM      Morning Break**      Fantasia Lobby

<i>Lanier/Scoggins</i>	<b>AOV Users Groups---Diagnostics, Calculation Software, &amp; Other</b>	
------------------------	--	--

10:30 AM – 12:30 PM      Crane Viper Users Group      *(Crane)*      Fantasia A

10:30 AM – 12:30 PM      FlowScanner Users Group      *(Fisher)*      Fantasia B

10:30 AM – 12:30 PM      UltraCheck Users Group      *(Areva/Framatome)*      Fantasia C

10:30 AM – 12:30 PM      AirCEt Users Group      *(Westinghouse)*      Fantasia D

10:30 AM – 12:30 PM      KVAP Users Group      *(Kalsi Engineering)*      Fantasia E

10:30 AM – 12:30 PM      Thermal Performance Users Group      *(LDS)*      Fantasia F

10:30 AM – 1:30 PM      Argo Valve Packing Users Group      *(A.P. Services)*      Fantasia K  
 (lunch provided in this users group)

10:30 AM – 12:30 PM      Chesterton Valve Packing Users Group      *(A.W. Chesterton Company)*      Fantasia L

10:30 AM – 12:30 PM      ACE Users Group      *(Areva)*      Fantasia N

**12:30 PM      Conference Adjourns**

<b>AUG Steering Committee Critique Meeting &amp; Planning Session---Steering Committee Only</b>	
---	--

12:30 – 3:30 PM      AUG Post-Conference Critique Meeting *(Committee members only)*      Boardroom

7:00 – 9:00 PM      AUG Steering Committee Dinner *(Committee members only)*      Portobello Yacht Club

**Attachment #1 -- Compressed Air Nuclear User's Group (CANUG) Agenda****Fantasia M**

*Air Purification Systems – Theory and Operations Seminar  
Pneumatic Products Corporation, Engineered Products Group*

<u>DAY 1</u>	<u>Monday</u>	<u>Presenter</u>
8:00	<u>Continental Breakfast and Introductions</u>	
8:15	<u>Opening Comments</u> A. Course Outline and Mechanics B. Attendee Special Interest - Goals	
8:30	<u>Basic Compressed Air Theory</u> Fundamentals of Compressed Air (29) A. Fundamentals of Compressed Air B. Terms and Concepts	
9:10	<u>Video (Compressed Air &amp; Gas Institute)</u> <u>Compressed Air Industry's Fourth Utility</u>	Video
9:30	<u>Contamination of Compressed Air</u> Contaminants in Air (22) A. Types of Contaminants - "The Big Four" B. Sources of Contaminants C. Effects of Contamination D. Performance Criteria for an Air Purification System 1. ISO8573 Standard 2. ISA Standards 3. FLAIR Standards	
10:15	<b>MORNING BREAK</b>	
10:30	<u>Video (Compressed Air &amp; Gas Institute)</u> <u>Principles of Air Compression</u>	Video
10:45	<u>Compressed Air System Components &amp; Functions</u> AE&C Fundamentals of Compressed Air Purification (53) A. Compressor B. Aftercooler C. Separator D. Air Receiver E. Air Purification System 1. Prefilter and Drain 2. Air Dryer 3. Carbon Bed Adsorber 4. Afterfilter	
11:30	<u>Adsorption Theory and Desiccant Types</u> Fundamentals Adsorption-Desiccant (9)	
12:00	<b>LUNCH</b>	

**Attachment #1 -- Compressed Air Nuclear User's Group (CANUG) Agenda (cont'd)**

<b><u>DAY 1</u></b>	<b><u>Monday (Continued)</u></b>	<b><u>Presenter</u></b>
1:00	<b><u>Three Basic Dryer Types</u></b> Fundamentals 3 Basic Dryer Types (8)	
1:30	<b><u>Types of Purification Filters</u></b> Fundamentals of Filtration (41) A. Coalescing Prefilter B. Particulate Afterfilter C. Point-of-Use Filter	
2:30	<b>AFTERNOON BREAK</b>	
2:45	<b><u>Coalescing Filter Demonstration</u></b>	
3:00	<b><u>The Need for Energy Management Systems</u></b> Need for Energy Management (12)	
4:45	<b><u>Adjourn For The Day</u></b>	
<b><u>DAY 2</u></b>	<b><u>Tuesday</u></b>	<b><u>Presenter</u></b>
8:00	<b><u>Classroom Discussion/Participation</u></b> A. Heatless Dryer Flow Paths B. Operation of Select Series Valves C. Steps to Start-Up a Heatless Dryer D. Advanced Dryer Controls (ADC) Demo	
10:00	<b>MORNING BREAK</b>	
10:15	<b><u>Hydrogen Coolant Purifier</u></b>	
10:30	<b><u>Troubleshooting the Heatless Dryer</u></b> Troubleshooting (17) A. Common Problems 1. System Problems 2. Dryer Problems B. Three Step Process 1. Symptoms 2. Diagnostics 3. Solutions	
12:00	<b>LUNCH</b>	
1:00	<b><u>Heatless Dryer Maintenance</u></b> Preventive Maintenance (25) A. Maintenance Check List B. Maintenance Scheduling	
1:45	<b><u>Switching Valve Types</u></b> Switching Valve Types (9)	
2:30	<b>AFTERNOON BREAK</b>	

**Attachment #1 -- Compressed Air Nuclear User's Group (CANUG) Agenda (cont'd)**

<u>DAY 2</u>	<u>Tuesday (Continued)</u>	<u>Presenter</u>
<b>2:45</b>	<b><u>Valve Maintenance and Repair</u></b>	
	<ul style="list-style-type: none"> <li>A. Poppet-Style Valves           <ul style="list-style-type: none"> <li>1. Inlet Switching Valves</li> <li>2. Outlet/Purge Check Valves</li> <li>3. Exhaust Switching Valves</li> <li>4. Repressurization Valves</li> <li>5. Interface Cartridge Valves</li> </ul> </li> <li>B. Hands-on Valve Disassembly and Repair</li> </ul>	
<b>4:30</b>	<b><u>Session Wrap-Up and Closing Comments</u></b>	
	<ul style="list-style-type: none"> <li>A. Course Critique</li> <li>B. Award Certificates</li> </ul>	
<b>5:00</b>	<b><u>Adjourn Class</u></b>	

**Wednesday Morning**

8:00 - 9:10	Attend AUG meeting to hear KEYNOTE SPEAKER	
9:10 - 10:00	Design for the future, Update and what do we really need: Bill Eister (or other speaker)	
10:25 - 11:45	SONGS: As You've Never Heard Them	Dave Tuttle (SONGS, tentative)

**Wednesday Afternoon**

1:30 - 2:30	Lessons Learned from Turkey Point (John Ashley, Principle Engineer, Turkey Point)	
3:00 - 5:00	Operating Experience Discussion: Bill Eister as Facilitator (Oconee Nuclear Station)	

(NOTE: Wednesday Evening take time to review System Health Reports in preparation for discussion on Thursday)

**Thursday Morning**

8:00 - 10:30	Compressor and IA System Reliability	Bill Scales (Scales Air Compressor Corporation)
11:00 - 12:00	Challenges for this past year	Bill Eister (Facilitator) (*Another Speaker might be available to fill this spot)

**Thursday Afternoon**

Plant Air System Health Report discussion. (Each Plant represented has an opportunity to discuss the Health of their System.)  
Bill Eister as Facilitator (Oconee Nuclear Station)

Design the New Compressed Air System for the Next Generation Nuclear Power Plant.

**Friday Morning**

8:00 - 9:30	Steven M. Unikewicz (NRC) NRC's Perspective on Compressed Air	
9:30 - 11:30	Future Training Opportunities, Future CANUG Direction, Bill Eister as Facilitator (Oconee Nuclear Station)	

**Attachment #2****Fluid Leak Management User Group Meeting  
Fantasia J**

---

**Monday, January 14<sup>th</sup>, 2008**

<b>8:00 a.m. – 9:30 a.m.</b>	<b>Introductions, Presentation of FLMUG Purpose and Charter</b> <i>Jim Tarkowski, Diablo Canyon</i> <i>Greg Schulte, Exelon LeSalle</i> <i>Ken Hart, PPL Susquehanna</i>
<b>9:30 a.m. – 10:00 a.m.</b>	<b>Morning Break</b>
<b>10:00 a.m. – 11:00 a.m.</b>	<b>FLM Zoomerang Survey Results and General Industry FLM Status</b> <i>Ken Hart, PPL Susquehanna</i>
<b>11:30 a.m. – 12:30 p.m.</b>	<b>Lunch</b>
<b>12:30 p.m. – 1:00 p.m.</b>	<b>Summary of July Plant Leak Reduction Meeting in Philly</b> <i>Doug VanTassell, AP Services</i>
<b>1:00 p.m. – 1:30 p.m.</b>	<b>Summary of September EPRI/Exelon Fluid Sealing Technology Meeting</b> <i>Greg Schulte, Exelon</i>
<b>1:30 p.m. – 2:00 p.m.</b>	<b>Utility Plant Leak Reduction Summary Presentations</b> <i>Greg Schulte, Exelon</i>
<b>2:00 p.m. – 2:30 p.m.</b>	<b>Break</b>
<b>2:30 p.m. – 4:30 p.m.</b>	<b>Utility Plant Leak Reduction Summary Presentations</b> <i>Dan Carty, Columbia Station / TV Dao, VC Summer / Jim Morgan, Duke</i>
<b>5:00 p.m. – 7:00 p.m.</b>	<b>Welcome Reception and Vendor Exhibits</b>

---



## Fluid Leak Management User Group Meeting Fantasia J

Tuesday, January 15<sup>th</sup>, 2008

8:00 a.m. – 9:30 a.m.	<b>Deliverables - Development of an Industry FLM Assessment Guide</b> <i>Group Discussion</i>
9:30 a.m. – 10:00 a.m.	<b>Break</b>
10:00 a.m. – 11:00 a.m.	<b>Deliverables - Update the EPRI Fluid Management Series</b> <i>Group Discussion</i>
11:00 a.m. – 12:00 p.m.	<b>Deliverables - Gasket and Packing Users Guide</b> <i>Group Discussion</i>
12:00 p.m. – 1:00 pm	<b>Lunch</b>
1:20 p.m. – 1:50 p.m.	<b>Deliverables - AOV Packing Testing at AECL</b> <i>Shea Antle, AECL</i>
1:50 p.m. – 2:30 p.m.	<b>Open Discussion/other areas of focus</b>
2:30 p.m. – 3:00 p.m.	<b>Break</b>
3:30 p.m. – Close	<b>Steering Committee Election/Define Subcommittees/Closing Comments/Follow up actions</b>



**Attachment #3: USA-STARS AOV Group Meeting at 2008 AUG Conference**

**Date/Time:** January 15, 2008 (Tuesday) 8:00 AM—4:30 PM

**Location:** AOV Users Group Conference—Orlando, FL  
Contemporary Resort & Conference Center - Fantasia K/L Room

**Tuesday, January 15, 2008**

To register for this meeting or to receive a copy of the agenda, contact:

Tim Scoggins  
tscoggins@ameren.com