



# CTI NEWS

COOLING TECHNOLOGY INSTITUTE • HOUSTON, TEXAS

VOLUME LIII

SPRING & SUMMER 2011

NUMBER 1



## Mark Your Calendar!

Committee Workshop  
July 17-20, 2011  
Amelia Island Plantation  
Amelia Island, FL

Annual Conference  
February 5-9, 2012  
Hilton Hotel  
Houston, TX

2011 Committee  
Workshop  
July 17-20, 2011  
Registration Form  
on our website  
[www.cti.org](http://www.cti.org)

## Inside...

- 2011 Board of Directors
- Bio's of the newest Board Members
- Pictures of the Annual Conference speakers
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- A Word from our Committees
- 2011 Committee Workshop Agendas
- Press Release from Multi-Agency
- 2012 Table Top Exhibit Information
- Hotel Information and Registration Form
- Planned Activities for the 2011 Committee Workshop



Jess Seawell

## Message From The President...

The CTI 2011 Annual Conference held in San Antonio this past February was a great success and was well attended. The programs and papers were outstanding and the table top exhibits were well presented. The membership enjoyed interfacing with the owners, suppliers and manufacturers and viewing their products. I visited almost all the booths and received very positive comments from the companies represented and all said they plan to return next year.

CTI continues to attract new membership to our organization. A number of first time attendees were present for the meetings and we had a large and growing contingency representing the international owner/operators, manufacturers and suppliers. The new attendee mentor program was very effective and assisted new attendees in receiving maximum benefit from the many programs presented at the Annual Meeting.

The CTI Thermal Certification Program continues to expand and is receiving worldwide attention. Our joint association with ECC (Eurovent) in providing Thermal Certification opportunities to international cooling tower manufacturers has progressed rapidly with the latest joint representative web meeting held in March. The meeting made excellent progress in developing joint "Data of Record" requirements for standardizing thermal certification and subsequent monitoring parameters for CTI and ECC worldwide. This joint meeting also developed recommended revisions to CTI Standard 201 (thermal test procedure for factory assembled towers). In addition, CTI at our board of directors meeting in February approved our recently revised Anti-Trust Guidelines that is so very necessary in an open and sharing technical society such as CTI provides its membership. CTI's status as a worldwide organization dedicated to furthering Cooling Technology and to meeting design, guaranteed Thermal Performance is accepted worldwide.

The number of manufacturers and name brand suppliers of CTI Thermally Certified Towers is 28 with 68 certified tower lines. A number of new manufacturers have applied for thermal certification this year.

The CTI Board of Directors approved a R & D Procedure that now allows potential research projects

that would be of great interest to the membership and industry to be proposed, developed technically and method of funding determined and approved at the Technical Standing Committee and Financial Committee level before presenting to the CTI BOD for final approval and capital allocation. I would like to complement Tom Bugler and the R&D task committee that worked to develop this long needed Research and Development Procedure.

The Thermal Certification Sustainability Committee was asked to develop a business plan at the February 2010 meeting and have a complete and detailed plan ready for presentation to the CTI BOD at the 2011 Winter Meeting. The plan was to encompass CTI re-assuming management of the Thermal Certification Program presently sub-contracted to CTTA as well as managing a Products and Materials Certification Program. The committee prepared a well developed and fully detailed business plan that was presented by Tim Facius at the Board of Directors meeting and the plan was well received and discussed in detail. The CTI BOD will be asked to vote on this plan at or before this summer's meeting. I wish to complement Tim Facius and this committee for preparing a professional business plan and presenting the plan on time to the CTI Board of Directors for their review and analysis.

The Summer Workshop Meeting will be held July 17, at the Amelia Island Hotel, located in Amelia, Florida. In looking at the work schedule of our 3 standing technical committees at this meeting, it is easy to count over 40+ CTI documents under review, to be revised or under development.

In addition, to the busy technical sessions, CTI has business issues that need attention for CTI to continue its growth and popularity in our industry. The Long Range Planning Committee in conjunction with the Strategic Issues Committee as well as other related committees prepared a five year business plan that was submitted to the CTI Board that outlines the direction that CTI should follow in the coming years to improve member benefits and increase interest in CTI worldwide and maintain financial stability. I encourage all members to get involved with CTI on the business side as well as the technical codes and standards.

*Message From The President con't on p.6*

# 2011 CTI Board of Directors

*Serving as President for 2010 and 2011*

Jess Seawell

Composite Cooling Solutions, L.P.



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2009-2011

2010-2012

2011-2013

## Manufacturers



Tim Facius  
Baltimore Aircoil  
Company



Frank Foster  
Tower Performance  
of Texas



Trevor Hegg  
Evapco, Inc.

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## Suppliers



Helen Cerra  
ChemTreat, Inc.



Don Zelek  
Brentwood  
Industries



Phil Kiser  
Hach Company

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## Owner Operators



Jon Bickford  
Alliant Energy



Denny P. Shea  
Shea Consulting  
Services, Inc.



Frank Michell  
American Electric  
Power

# Meet 2011's Newest Board Members!



Trevor Hegg  
Evapco, Inc

Trevor is a '94 (BSME) and '96 (MSME) graduate of Michigan Technological University. Before beginning his career with Evapco in 2001, he worked with Praxair, Inc. (Tonawanda, NY) as a Mechanical Equipment Engineer. In addition to the knowledge gained with compressors, pumps, heat exchangers, vaporizers, and storage vessels used in the air separation industry, Trevor had a strong focus on both field erected and packaged open cooling systems as Global Cooling System Object Owner. In 2001, Trevor began his career with Evapco, Inc. as a marketing engineer. His marketing career was short lived being too much of an engineer and not very outgoing. Trevor has spent the first part of his career at Evapco in the Product Development/R&D department in various positions working with HVAC products including cooling towers and closed circuit coolers. In 2007, Trevor was moved to the Industrial Refrigeration Product Development department working with Evapco's evaporative refrigerant condenser and evaporator products. He is currently the Director of Product Development for Industrial Refrigeration products.

Phil Kiser is a Corporate Account Manager for Hach Company, Loveland, Colorado, USA for the global water treatment chemical market. He provides technical application support/expertise on industrial process and industrial and municipal wastewater instrumentation applications. He has 30+ years experience in all phases of industrial water treatment and municipal process and wastewater applications.

He has published numerous papers and presented technical seminars on related topics, such as wastewater treatment, Cooling Water Control, ORP applications, Electrodialysis Reversal, and instrument applications such as suspended solids, TOC, pH and others. He served as a contributing author for three books: "Biological Nutrient Removal (BNR) Operation in Wastewater Treatment Plants" and "Automation of Wastewater Treatment Facilities" and "The Science and Technology of Industrial Water Treatment".

He has a B.S. degree in Microbiology/Chemistry from Texas Tech University plus graduate work at the University of Houston in Biochemistry.



Phil Kiser  
Hach Company



Frank Michell  
American Electric Power

Frank Michell is Manager of the Applications Engineering and Balance of Plant Mechanical Equipment Group of the Engineering Services Organization of American Electric Power responsible for providing engineering services to AEP's Fossil Hydro Generating Fleet in the areas of Mechanical Engineering Analysis (fluid mechanics, thermodynamics, heat transfer, stress analysis, CFD modeling, etc) and balance of plant mechanical equipment & system expertise/design basis for pumps, heat exchangers, cooling towers, HVAC & dust collection and other misc. equipment). Frank is active in several Industry Organizations including CTI, EPRI and ASME. Frank has previously been on the CTI Board of Directors and in 2003 served as CTI President, Frank holds a BS Degree in Mechanical Engineering from Polytechnic Institute of New York.

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## *CTI Has Lost Two Dear Friends*

### **Glenn Rees**

October 28, 1957 - March 18, 2011

Glenn went to be with his Lord and Savior Friday, March 18, 2011. Glenn was survived by his wife Diane of 32 years, and sons Jonathan, Brandon and his wife Kristen and David.

For most of Glenn's career he was employed by the cooling tower industry, He was very

passionate for his work and was employed in many capacities. Through out his involvement with the Cooling Technology Institute (CTI), he served as a Board Member and also as President. He called many of these colleagues his friends.

The Cooling Technology Institute has lost a great friend. Glenn will truly be missed by all.

### **James Bob Cave**

September 10, 1930 - December 12, 2010

James "Bob" Cave was born in Ft. Worth, Texas on September 10, 1930 and passed away December 12, 2010 in Whitehall, Montana. He is survived by his wife of 58 years, Betty Cave, three children Melanie Riesebeck, Randall Cave, Robert Cave, and three grandchildren and two great grandchildren.

After serving in the Navy for four years Bob married Betty Duffau in 1952. He entered the cooling tower industry in 1950 forming K.C. Erection Co in 1953. In this capacity he was an exclusive Marley Cooling Tower Company erector. In 1977 he established Southwest Cooling Tower Company joining the Cooling Tower Institute (CTI) in 1978. Southwest Cooling Tower Company joined the Cooling Tower Institute (CTI) in 1978 where he participated in nearly all of the annual winter and summer meetings.

# 2011 Annual Conference



*(l-r) Tom Weast, Cooling Tower Test Associates, Inc. Robbie McElveen, Baldor Electric Company; William Martin, Baldor Electric Company; David McLachlan, Fluid Treatment Solutions*



*(l-r) Roy Holliday, GE Water & Process Technologies; Vladislav Grebik, REKO PRAHA, A.s.; Gary Geiger, GE Water & Process Technologies; Janet Stout, Special Pathogens Laboratory; Mark Shaw, Black & Veatch Corporation*



*(l-r) Gary Geiger, GE Water & Process Technologies; Janet Stout, Special Pathogens Laboratory; Bill Pearson, Southeastern Laboratories, Inc.*



*(l-r) Javier Balma, Walter P Moore & Associates, Inc.; Robert (Bob) Giammaruti, Hudson Products Corporation; Paul Nelissen, Howden*



*(l-r) Jeffrey Kramer, BWA Water Additives, Magose Abraham Eju, Nigeria Liquefied Natural Gas Ltd; Jean-Pierre Libert, EvapTech, Inc.; Kristen Bridge, Superior Water Company, Inc.*



*(l-r) Michael Coughlin, Diversey, Inc.; Narendra Gosain, Walter P Moore & Associates, Inc.; Brandon Rees, Cooling Tower Depot, Inc.*

# Speakers and Participants

## Ask-The-Expert Session



(l-r) back row: Rich Aull, Brentwood Industries, Inc.; Rich Harrison, Baltimore Aircoil Company; Jim Cuchens, Southern Company, Jim Baker, Composite Cooling Solutions, LLP; (l-r) front row: Ray Post, ChemTreat, Inc.; Robert (Bob) Fulkerson, Honorary Life Member; Jasbir Gill, Nalco Company

## Educational Seminar



(l-r) back row: Chris Spencer, FM Approvals; Brandon Rees, Cooling Tower Depot, Inc.; Bhyrav Mutnuri, Bedford Reinforced Plastics, Inc.; (l-r) front row: Mike Bickerstaff, Composite Cooling Solutions, LLP; Larry Edwards, F.E. Moran, Inc.; Jamie Bland, Composite Cooling Solutions, LLP

## Honorary Life Member



Jess Seawell welcomes CTI's newest Honorary Life Member, Robert (Bob) Fulkerson

## 30 Years of Service



Jess Seawell hands Virginia Manser a plaque commemorating 30 years of service to CTI.

### Press Release

Contact: Chairman, CTI Multi-Agency Testing Committee

Houston, Texas, 1 May 2011

The Cooling Technology Institute announces its annual invitation for interested drift testing agencies to apply for potential Licensing as CTI Drift Testing Agencies. CTI provides an independent third party drift testing program to service the industry. Interested agencies are required to declare their interest by July 1, 2011, at the CTI address listed.

### Standard / Chapter

#### Revised:

**Chapter 4 - Recommendations for Winter Operation of Water Cooling Towers** - Guidelines for winter operation of industrial water cooling towers, and represents the consensus of both manufacturers and users throughout the industry. Revised September 2010 - \$15.00

**Chapter 10 - Mechanical Components for Cooling Towers** - This chapter deals with the mechanical equipment for a cooling tower, associated equipment problems, and the different ways of access to the equipment for inspection and maintenance. Revised March 2010 - \$15.00

# A WORD FROM OUR COMMITTEES

## Engineering Standards and Maintenance Committee Annual Conference – The Westin Riverwalk, San Antonio, Texas February 6-10, 2011

**Chair:** Jim Baker, Composite Cooling Solutions, LP  
**Vice Chair:** Chris Lazenby, Southern Company Services  
**Vice Chair:** Craig Burriss, Amarillo Gear Company



(l-r) Craig Burriss, Amarillo Gear Company; Chris Lazenby, Southern Company Services; Jim Baker, Composite Cooling Solutions, LLP

### CLOSING – GENERAL SESSION

#### CALL TO ORDER/ANNOUNCEMENTS –

Meeting was called to order at 1:35 p.m. on February 9, 2011.

#### REPORTS FROM LEAD TASK GROUP CHAIRS –

##### **Wood, Metal, and Concrete Materials Task Group – Bill Howard**

- The Cleaning Cooling Towers task group met and decided to use previous technical papers on cleaning as a starting point.
- The new Concrete Restoration standard should have one ad-hoc reviewer but at least 2 more are needed. Hopefully, this document will be ready for Board approval at the summer meeting.
- ESG-144 will be voted on at the next board meeting.

##### **Mechanical Equipment Task Group – Craig Burriss**

- STD-151, Variable Frequency Drives, did not meet. Bill Howard had some minor revisions and gave copies to Craig Burriss, Dwayne Byerly, and Dave Sayker to review. Bill will need to get additional ad-hoc reviewers after the group gives approval.
- Chapter 10 is not ready for Board vote. The office needs to finish formatting of Chapter 10 so the board vote can occur.
- The Vibration Standard had good progress. The standard will use information from 2 ISO standards for vibration limits, and a guideline for vibration analysis.
- Chapter 11 met, but it is difficult to get participation. The re-write is currently  $\frac{3}{4}$  complete.

##### **FRP and Plastics Task Group – Glenn Barefoot**

- STD-137 may be re-opened to consider effects of water chemistry on fiberglass.
- The Wood-to-FRP Connection Guideline group met Tuesday and has another meeting scheduled for Wednesday afternoon.
- The Fan Stack Design Guideline will need to meet in July. Tom Toth will work on organizing voting members

##### **Tower Operations Task Group – Bill Howard**

- The Chapter 13 task group is scheduled to meet later this afternoon.
- Nomenclature will meet later this afternoon.

##### **Hazard & Environmental Protection Systems Task Group – James Blake**

- The new Field Erection Practices guideline task will meet with STD-203 later this afternoon.
- Chapter 7&8 is about 2/3 complete and should be ready for review at the summer meeting.

#### GENERAL COMMENTS –

- Jim Baker asked everyone to get their task group minutes to him.
- Mike Daley suggested that the CTI office send out emails when documents are approved by the board and available from CTI.

#### NEW BUSINESS –

- Dave Suptic reported that the new Certification Committee will add workload to ES&M in the future.

#### ADJOURNMENT –

With no further business before the Committee, the meeting was adjourned at 2:00 p.m.

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*Message From The President con't from p.1*

This Summers Work Shop will be a busy time both technically and businesswise. Amelia Island is an excellent location that will offer both a relaxing and stimulating atmosphere for CTI members to perform our committee work and interact with our peers on many different issues. It is a good location for families to also spend time together with others. I look forward to seeing you in Florida in July.

*Jess Seawell, CTI President 2010/2011*

# Performance & Technology Committee Meeting Minutes

Annual Conference – The Westin, Riverwalk, San Antonio, Texas.

February 6-10, 2011

Chair: Ken Hennon, Clean Air Engineering, Inc

Vice Chair: Rich Aull, Brentwood Industries, Inc

Vice Chair: Jean-Pierre Libert, EvapTech, Inc.



(l-r) Mark Shaw, Black & Veatch Corporation; Ken Hennon, Clean Air Engineering, Inc.; David Wheeler, Clean Air Engineering, Inc.

1. **Call to Order** - Kenneth Hennon, Performance & Technology Committee Chairman, called to order the closing meeting of the Committee on February 9, 2011 at 3:10 p.m. at the Westin Riverwalk in San Antonio, TX.
2. **Attendees** - There were approximately 39 attendees throughout the Annual Conference at the Performance & Technology Technical meetings.
3. **Old Business - Task Groups**
  - a) The drift test code, ATC-140, has been submitted to CTI for formatting in preparation for a Board of Directors (BOD) vote for approval. This vote is anticipated to occur at the summer workshop.
  - b) The air cooled condenser test code, ATC-107, has been submitted to CTI for formatting in preparation for a BOD vote for approval. This vote is anticipated to occur at the summer workshop.
4. **Old Business - Active Task Groups**
  - a) STD-202 (Publication of test results) – Paul Lindahl, Chair  
The task group voted to continue the Consensus Process (formerly ANSI Process). The task group reviewed and addressed all the ad-hoc comments. According to the Consensus Process, the draft document is to be distributed next to the P&T membership for review and comments prior to submittal to the Board of Directors.  
The need for a legal review of the document should be brought up by P&T before the Board.
  - b) ATC-105 (Thermal Tests) – Rich Harrison, Chair - Assignments were turned in and reviewed. Uncertainty calculation methodology was discussed as well as parameter limits such as fan power. A suggestion was made to standardize the criteria to choose the most stable test window(s). Assignments turned in for committee consideration included helper cooling tower evalu-

ation, wind speed measurement locations, and text regarding make up and blow down measurements.

c) STD-146 (Flow Measurement) – David Wheeler, Chair - The task group discussed the R&D process necessary to determine the best future pitot tube tip design and the urgency associated with the determining an acceptable alternative to the pitot tube design currently in use. The committee decided to accept various Pitot tube tip designs for consideration and inclusion in the P&T R&D proposal from interested parties. The deadline for submittal to the Task Group Chair is May 1, 2011. Detailed dimensional drawings are required for consideration. David Wheeler is to write a test procedure to evaluate the candidate tips.

d) ATC-150 (Plume Abatement Test) – Paul Lindahl, Chair - The draft document including all ad-hoc comments has been approved by the task group. The document will go to P&T membership for review and comments in accordance with the Consensus Process.

e) Technical Review – Trevor Hegg, Chair - The task group made the following recommendations:

- ATC-128 (Sound) is to be re-opened.
- ATC-106 (Evaporative Refrigerant Condenser) should be reaffirmed until ATC-105 is completed.
- PTG-143 (Airflow): will be discussed in a near term Tech Review committee phone call.
- ESP documents: no action recommended at this time. Trevor Hegg and Ken Hennon will determine what can/should be done with these documents.
- The task group discussed combining ATC-105, 105S and 106 into a single document with a common core text with separate supporting sections for each different piece of equipment. No action is recommended at this time. An outline of what the document would look like should be prepared for discussion at a later date. The example of ASME PTC-23 was brought up.

f) STD-201 (Certification) – Frank Michell, Chair, and Trevor Hegg, Co-Chair - This is standing committee. The list of items for review keeps growing and priorities must be re-defined repeatedly. The task group decided to have an interim web-based meeting on March 22, 2011 at 9:00 EST. Those wishing to participate should contact Frank Michell. There may be other interim meetings before the summer workshop.

There was a discussion about scheduling conflicts between different group meetings; for example the Certification task group met at the same time as another group which prevented the STD-201 Chairman from attending.

There was significant discussion about whether STD-201 should adhere to the Consensus Process moving forward.

g) General discussion: Consensus Process. There was a discussion on the Consensus Process (formerly ANSI process). The process details need to be clarified and finalized. Among

*Performance & Technology Minutes con't on page 10*

# Water Treating Committee Meeting Minutes

Annual Conference – The Westin Riverwalk, San Antonio, Texas, February 10, 2011.

Chair: Matt Wangerin, Ashland Water Technologies

Vice Chair: Jim Kanuth, ChemTreat, Inc.

Secretary: Pete Elliott, GE Water & Process Technologies

Coordinator: Jon Cohen, H-O-H Water Technology



(l-r) Matt Wangerin, Ashland Water Technologies; Jim Kanuth, Chem-Treat, Inc.

1. Call to Order - Matt Wangerin, Water Treating Committee Chairman, called the Closing meeting to order by at 1:30 P.M. at the Westin Riverwalk in San Antonio, TX.
2. Attendees - There were thirty-seven (37) attendees throughout the Annual Conference at the Water Treating Technical meetings.
3. Task Groups
  - WTG 122- Water Filtration is currently in Board Review.
  - WTG 132- Withdrawn.
  - WTG 141- Application of Oxidizing Biocides-in Ad Hoc.
  - WTG 142- White Rust- in Ad Hoc.
  - WTG 147- Bibliography of CTI Technical Papers (will be reviewed by Chairman)
  - Non-Chemical Device Task Group (no WTG# as yet assigned) led by Bob Cunningham. (This group continues to search for a scope, and remains open although little concrete work has been done.)
  - Instrumentation & Control Task Group led by Mike Dorsey. Reviewed sections of current base line document – 5 sections written. Discussion on how to fit proprietary instrumentation into generic technical terms remains an issue. Assignments were given for additional work and document final assembly anticipated before Summer meeting.
  - Deposit Monitoring Document (WTG-130b) led by Jasbir Gill. Jasbir Gill (chair) reviewed his outline for revision of document. Task Group defined the scope and mission statement for this document. Emphasis will be placed on methods of Deposit Monitoring NOT Deposit Control. Gill to send out draft document to all Task Group members, with written feedback returned prior to Summer meeting.
  - Microbiological Monitoring (WTG-130c) led by Jana Rajan. A great deal of work has been completed. Sections to be worked on include Sessile bacteria and ATP Testing. Document near completion by Summer meeting.
  - Measurement of Corrosion led by Gary Geiger

Minor revisions of wording are all that is required. Geiger to circulate document for peer review.

- Review of Chapter 6 – Water Treatment Handbook. Review of this document to be suspended until the Summer meeting.
  - Review of Chapter 7 – Water Treatment Handbook à Joint committee with ES&M and P&T. Environmental issues revision to be brought up to current standards. 2 of 3 sections complete. Document near completion by Summer meeting.
  - Green Chemistry (no WTG# as yet assigned). No Task Group Chair is in place, nor are there a scope, Mission Statement, and draft of task, therefore it is being dissolved.
4. Liaison Reports
    - ASHRAE (Bill Pearson reports). Legionella STD 188 will be going out for full 45-day review (2<sup>nd</sup> review). STD 188 is procedural-based, not performance-based. STD 188 includes building water systems (potable water systems). The 2<sup>nd</sup> review will be initiated in 4-6 weeks. Wangerin to send out to all Water Treating Committee members, a copy of STD 188. Next meeting is set for June 26, 2011 in Montreal. Issues were discovered with Title 24 STD 90.1a. Water costs to be incorporated into STD (LEED) represents a significant on costs associated with the operation of water-cooled chillers.
    - AWT (Bill Pearson reports). The October 2010 convention consisted of main task groups: BLR, CLG, WW, White Rust, Green Chemistry, LDB. This past convention brought in the highest attendance figures in AWT history. Common interest with CTI was noted.
    - EPRI-No report
    - ASM-No report
    - NACE (Art Friedman reports). Next meeting set for March 13-17 in Houston, TX. Water treatment component seems to be phasing out. Corrosion of pipelines/cathodic protection is gaining emphasis. Review of MB component remains the most active piece of water treatment discussion.
    - IWC (Jack Bland/Jasbir Gill report). Recent convention in San Antonio from October 2010 produced many exhibits (60-70 exhibitors). The focus is beginning to shift more to produced waters, such as those associated with oil sands.

*Water Treating Minutes con't on p.9*



# 2011 Committee Workshop Agendas

President's Address at 8:00 am Monday, July, 18 2011. Committee meetings will follow.

## ENGINEERING, STANDARDS AND MAINTENANCE

**Jim Baker** - Composite Cooling Solutions, LP, Chair  
**Craig Burriss** - Amarillo Gear Company, Vice-Chair  
**Chris Lazenby** - Southern Company Services, Vice-Chair

- I. Call to Order/Announcements
- II. Introduction of Attendees
- III. Approval of 2011 Annual Conference Meeting Minutes
- IV. Professional Development Hours (PDHs)
- V. Document Approvals Since Winter Meeting
  - Documents under AD-Hoc Review
- VI. Reports from Lead Task Group Chairs
  - *Wood, Metal, and Concrete Materials Task Group*
  - *FRP and Plastics Task Group*
  - *Mechanical Equipment Task Group*
  - *Tower Operations Task Group*
  - *Hazard & Environmental Protection Systems Task Group*
- VII. Five Year Document Review Status
- VIII. Task Group Meeting Schedules
- IX. New Business
- X. Adjourn

*Water Treating Minutes con't from p.8*

- Water Tech M/E Water: No report
5. New Business
    - Wangerin solicited ideas for additional Task Groups for inclusion into the formal body.
    - Cohen put forth documents requiring mandatory periodic review:
      - WTG 130-Guidelines for Evaluation of Cooling Water Treatment Effectiveness
      - WTG 147-Updated List of Technical Papers
    - Wangerin solicited topic ideas for 2012 CTI Winter Meeting Water Treating Panel Discussion
      - Legionella and how it ties in with recently approved documented standards
      - “What not to do with my cooling tower/system: \_\_\_\_\_”
      - “What do you do when \_\_\_\_\_ happens?”
      - “What if \_\_\_\_\_ discharge gets regulated?”
    - Discussion of recent court rulings involving zero/near zero liquid discharge regulation (Broward Co. FL, for example: 0.005 gal/ton refrigeration per day regulated value)
    - Discussion of PO<sub>4</sub> limitations in the Ohio River Valley
  - Summer Meeting announced: July 17-20 – Amelia Island, FL
  - Call for Papers Abstract Deadline announced: 05/06/11

## PERFORMANCE & TECHNOLOGY

**Ken Hennon** - CleanAir Engineering, Chair  
**Rich Aull** - Brentwood Industries, Vice-Chair  
**Jean-Pierre Libert** - EvapTech, Inc, Vice-Chair

- Call to Order/Announcements
- ATC-107 Air Cooled Condensers – David Wheeler
  - ATC-140 Drift Test – Ken Hennon
  - ATC-150 Plume Abatement – Paul Lindahl
  - STD-201 Certification Standard – Frank Michell
  - STD-202 Publication Standard – Paul Lindahl
  - ATC-105 Thermal Test – Rich Harrison
  - STD-146 Water Flow Standard – David Wheeler
  - Technology Review – Trevor Hegg
  - Sound Test Code Implementation – Paul Lindahl

## WATER TREATING COMMITTEE

Matt Wangerin, Ashland Water Technologies, Chair  
Jim Kanuth, ChemTreat, Inc., Vice Chair  
Pete Elliott, GE Water & Process Technologies, Secretary  
Jon Cohen, H-O-H Water Technology, Coordinator

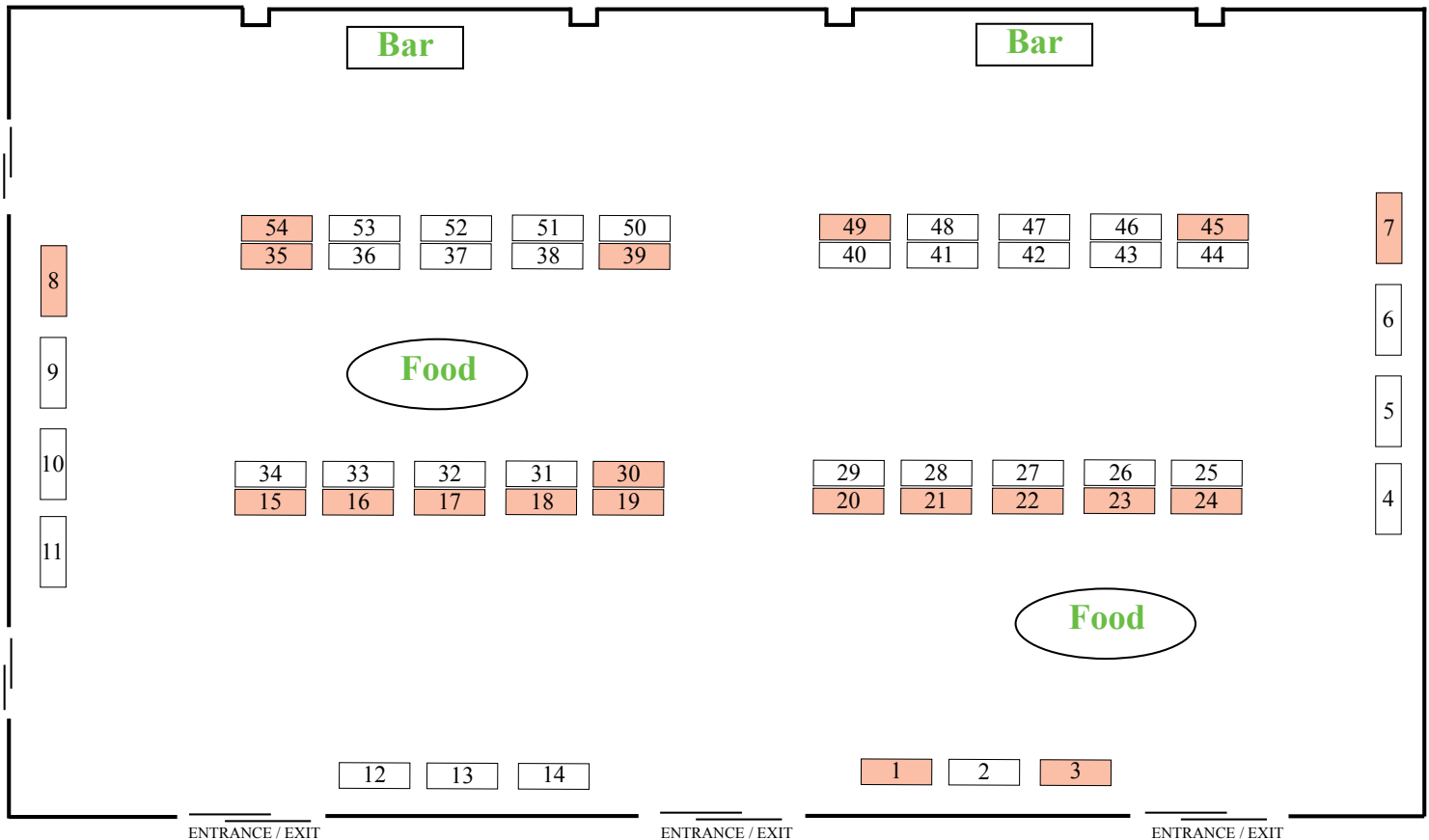
- I. Call to Order/Announcements
- II. Introduction of Attendees
- III. Approval of 2011 Annual Conference Meeting Minutes
- IV. Task Group Reports
  - A. Filtration of Cooling Water Systems - Clarence Meloncon
  - B. Environmental Issues – Dean Lammering/Denny Shea
  - C. Oxidizing Biocide - Jon Cohen
  - D. Deposit Monitoring - Jasbir Gill
  - E. Green chemistries - Mike Gilpin
  - F. Non-Chemical Water Treating Devices - Bob Cunningham
  - G. Literature Review and Update
  - H. Instrumentation & Control
  - I. Treatment of Galvanized Cooling Towers to Prevent White Rust - Tom Bugler
  - J. Microbiological Monitoring - Jana Rajan
- VI. Liaison Reports:

ASHRAE	ASM
AWT	EPRI
NACE	IWC
Watertech Microelectronics Water	
- V. New Business
  - Need for new Task Groups?
  - Technical paper subjects for "targeted" symposium topics.



# Table Top Exhibits

Tuesday, February 7, 2012 • 4:00p - 9:00p  
 Hilton Hotel, Houston, Texas



**Don't forget to reserve your space. A total of 54 exhibit spaces available at \$1200/space with a number of tables already reserved (sold spaces indicated by red boxes)**

**for more information contact Virginia Manser at 281.583.4087 or [vmanser@cti.org](mailto:vmanser@cti.org)**

*Performance & Technology Minutes con't on page 7*

other things a clearer definition of document flow is needed and the public review process needs to be clarified. The Consensus Process applies when a standard is expected to become adopted by other organizations in the future.

**5. New Business**

- a) ATC-128 will begin the revision process in committee during the 2011 Summer Workshop. Jean-Pierre Libert will chair and solicit membership. The re-opening of ATC-128 is likely to affect the process of the Sound Test Implementation Task Group.
- b) Chapter 3 (Performance variables) of the CTI Manual will also be reopened. Rich Aull will chair the task group. Chapter

3 will become a supplement to the CTI Toolkit User's Manual. c) Chapter 5 (Field Manual) will open up. Rich Aull will chair the task group. Chapter 5 will become simply the Toolkit software.

d) Proposal was made from the floor by Michel Monjoie and Vincent Ganzitti to consider the inclusion into ATC-140 of a protocol for the resistivity method of analysis. ATC-140 is now considered closed. There was a discussion of presenting additional information from recent tests using this method and whether this data could be presented in the form of a "white paper" or "position paper".

# Registration Form

## Committee Workshop July 17-20, 2011 Amelia Island Plantation, Amelia Island, Florida

Name \_\_\_\_\_ Nickname for Badge \_\_\_\_\_  
Company \_\_\_\_\_ Spouse Name if Attending \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone \_\_\_\_\_ FAX \_\_\_\_\_ Email: \_\_\_\_\_

- Full 3 Day Registration .....\$350.00 \$395 after July 8
  - Golf Tournament (Handicap \_\_\_\_\_) Tee Time Begins @ 8:00a .....\$150/pp Closed July 8  
    Spouse Name \_\_\_\_\_ (Handicap \_\_\_\_\_) .....\$150/pp Closed July 8
  - Monday Night on the Beach Club Deck (No. Adults \_\_\_\_\_).....\$ 75/pp Closed July 8  
    No. Kids 15 and under ( \_\_\_\_\_ ) .....\$ 35/pk Closed July 8
- TOTAL DUE \_\_\_\_\_

Enclosed is my check made out to CTI for \$ \_\_\_\_\_

Registration can be charged to the following cards: [ ] Visa [ ] Master Card [ ] American Express

Card# \_\_\_\_\_ Exp. Date \_\_\_\_\_ Cardholder \_\_\_\_\_  
CVV/CVC/CID Code \_\_\_\_\_ (must have to process payment).

Payment for meeting registration can be made at the meeting, but please pre-register. (All recreational activities must be paid for in advance. Events will be cancelled if we do not receive enough reservations by July 8.)

**REFUNDS WILL BE MADE IN FULL FOR CANCELLATIONS MADE PRIOR TO JULY 8, 2011.  
15% CHARGE ON ANY CREDIT CARD REFUND MADE - NO EXCEPTIONS!**

## 2011 Committee Workshop, July 17-20, 2011 Amelia Island Plantation, Amelia Island, Florida



The 2011 Committee Workshop will be held at the Amelia Island Plantation, Amelia Island, Florida, July 17-20, 2011. Plan to arrive early and participate in golf, view the sights or just relax on the beach. Actually the sky is the limit. When making reservations be sure to mention that you are with the CTI Conference

**Amelia Island Plantation Reservations: 888-261-6165**

*Be sure to mention you are with the Cooling Technology Institute for our group rate or reference file 8BF39Q*

**Guest Room Rates: (Cut off Date: Wednesday, June 18, 2011):**  
\$169.00/plus taxes

*Hotel room rates are subject to applicable state and local taxes and resort fees.*

# COMMITTEE WORKSHOP PLANNED ACTIVITIES



## Monday Evening, July 18, 2011 Dinner on the Beach Club Deck

- CTI Attendees & Guest - \$75
- Guest 15 & under - \$35

**Price includes: Dinner and Drinks**  
arriving at 6:00p, staying until 10:00p

**Serving:** Hamburgers, Hot Dogs and/or Marinated Chicken Breast w/ lettuce, sliced tomatoes, onions, pickles and cheese; Potato Salad, Cole Slaw, Pasta Salad and/or Green Salad w/assorted dressings; Baked Beans, Macaroni and Cheese and/or Green Beans; Assorted Rolls and Buns, Apple Pie and/or Key Lime Pie

*CTI attendees will receive a 25% discount on golf throughout our stay! Let them know at the Pro shop you're with CTI.*

### 2011 Board of Directors

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**CTI NEWS**  
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