First, I would like to give many thanks to my good friend and colleague, Jack Bland, for his superb leadership during the last two years as President of the CTI. It was an honor for me to accept the President’s gavel from Jack at our February 2014 CTI Annual Conference in Houston. I am looking forward to working with Jack in his new role as chair of the Past Presidents Council. I also want to thank CTI outgoing Board members Phil Kiser and Trevor Hegg for their time and dedication over the past three years. Phil and Trevor will continue to serve CTI in Committee Leadership positions.

I am excited about the opportunity to be your President for the 2014/2015 term. When I was serving as CTI President in 2003, the CTI Board voted to change the President’s term from one year to two years starting in 2004. Also at that time, an additional change was made; the President is no longer a member of the CTI Board and only votes in event of a tie, which is unlikely since the Board has 9-members; 3 from each of the membership categories of Owner/Operator, Manufacturer and Supplier.

By all measures, the CTI 2014 Annual Conference held in Houston was a big success. Attendees gained valuable knowledge from the excellent technical papers and presentations, from interacting with vendors at the top exhibits and from participation in the Committee and Task Group meetings.

CTI is clearly recognized as a global organization with continuing increase in international membership and strong growth in Thermal Certification for factory assembled cooling towers by domestic as well as foreign manufactures.

CTI needs more Owner/Operators to advise the manufacturers and suppliers for the need to improve existing products, develop new products, and provide additional services and technologies to enhance the reliability and performance of cooling towers and related equipment. We must all remember that the Cooling Technology Institute does not only focus on cooling towers.

My goals for the next two years will be to find new ways increase Owner/Operator membership and to encourage active participation in CTI’s Committees and Task Groups.

This year the Committee Workshop will be held July 12-16 at the Sheraton Resort in Steamboat Springs, Colorado. The Committee Workshop is where the hard work of writing, reviewing and revising our Codes and Standards is done. Active participation at the Committee Workshop provides an opportunity to better understand the technologies the CTI is involved in, and provide valuable input to the organization, ensuring dissemination of quality information and optimum value to the industry, especially the Owner/Operators.

I would like to refer you to the CTI Website where you will find valuable information about the Institute and future meetings. Prior to the Committee Workshop, The three Standing Technical Committees; Engineering Standards & Maintenance, Performance & Technology and Water Treating will post Task Group schedules on the Website.

I would like to thank the CTI office staff under Vicky Manser’s leadership for doing an excellent job of keeping the Institute well organized and providing the necessary support to all aspects of its operation.

Further, I wish to express my sincere appreciation to the many dedicated, hardworking Committee and Task Group volunteers within CTI that make our organization the exceptional, globally recognized organization it is.

I am looking forward to seeing you in Steamboat Springs, CO this July.

Frank Michell
CTI President 2014/2015
2014 CTI Board of Directors
Serving as President for 2014 and 2015
Frank Michell
American Electric Power

2012-2014
Tom Toth
GEA Heat Exchangers, Inc.

2013-2015
Billy Childers
Aggreko Cooling Tower Services

2014-2016
Anthony DePalma
Tower Performance, Inc.

Manufacturers

Suppliers

George Zubritsky
Cooling Tower Testing and Inspection Services, LLC

Steven Chaloupka
Amarillo Gear Company

Jon Cohen
H-O-H Water Technologies

Owner Operators

Helene Troncin
Electricite De France (EDF)

Natasha Jones
Bechtel Power Corporation

James Cuchens
Southern Company Services, Inc.
Meet 2014's Newest Board Members!

Jon Cohen, H-O-H Water Technologies
Jon has been involved in water treatment for over 20 years, all with H-O-H Water Technology, Inc. He is currently Technical Director at H-O-H responsible for field operations, chemical and mechanical product management, environmental health and safety and the Engineering Division. Jon earned a bachelor’s degree in Biology, a master’s degree in chemical engineering and an MBA. Jon holds LEED-AP accreditation and CWT certification. Jon is an active member in ASHRAE, CTI, and ECS serving on several TC’s, SPC’s, society level committees and committees within other organizations. Jon was the Conference Chair for the 2014 ASHRAE Winter Conference and on the Conference and Exposition Executive committee. Jon has authored over ten papers in the last decade.

James (Jim) Cuchens, Southern Company Services, Inc.
Jim Cuchens, Principal Engineer, has been employed with Southern Company Engineering since 1973. Jim holds a B.S. Degree in Mechanical Engineering from Mississippi State University and is a registered professional engineer in Alabama, Florida, Georgia, and Mississippi. Jim currently has ~41 years of experience in power plant conceptual design, equipment specifications, plant operations and maintenance, and technical bid evaluations. Experience during the past 38 years has primarily been with power plant cooling systems which includes cooling towers, air-cooled/steam surface condensers, and auxiliary cooling systems. Jim’s experience also include re-tubing condensers, upgrading existing cooling towers, and investigating anti-fouling fill designs for new and retrofit tower installations. Cooling System experience includes computer modeling/simulation and performance analysis of various cooling cycles. Jim has previously served on the Board of Directors of the Cooling Technology Institute as Vice President (1999-2000) and as President (2000-2001). Jim's is a member of the ASME PTC 23 Cooling Tower Test Code Committee and the ASME PTC-30 Air Cooled Heat Exchanger Test Code Committee.

Anthony DePalma, Tower Performance, Inc.
Anthony (Tony) DePalma has worked for several cooling tower companies in the cooling tower industry since 1977. Currently he is with Tower Performance, Inc. where he has been working since 1991. Tony graduated from Polytechnic University in 1970 with a Bachelor of Science degree in Aerospace Engineering and has a Master of Science degree in Mechanical Engineering from Steven's Institute of Technology. He has been involved with the American Society of Mechanical Engineers and the Cooling Technology Institute since the 1980's where he has served as Vice President, President and as a Board Director in addition to participating on many committees.

George Zubritsky, Cooling Tower Testing and Inspection Services, LLC
Mr. Zubritsky graduated from Johns Hopkins University in 1974 with a degree as a Mechanical Engineer. He retired from Baltimore Aircoil Company as Chief Engineer in 2002 after 28 years as Manager of the R&D Laboratory where he managed product line development and product improvement of cooling towers, condensers, and fluid coolers both factory assembled and field erected; managed AutoCAD department; conducted field thermal performance tests of factory assembled and field cooling towers, etc. and conducted vibration and sound tests on various product lines. George was the Engineering Manager for Ellis and Watts International (2003 to 2006) in Batavia, Ohio where he managed the product improvement and sales of various chillers, and A/C systems for DOD, defense industry, NASA, GE Health Care, etc. Mr. Zubritsky is currently, owner/manager of Cooling Tower Testing and Inspection Services LLC and has been since 2006. He conducts thermal performance tests of cooling towers, refrigerant condensers, wet surface steam condensers and fluid coolers; along with vibration and sound testing, and inspections He is a member of CTI, ASME Life member and ASHRAE.
2014 Annual Conference

(l-r) Jean-Pierre Libert, Evapco, Inc.; Thomas Carter, Johnson Controls; Trey Cook, Dupont

(l-r) Paul Chila, Quantum Technical Services, LLC; Abraham Eju, Energy Business Total Solutions; Frank Michell, American Electric Power; Javier Balma, Walter P Moore

(l-r) Matt Wangerin, Ashland Water Technologies; Patrick Littlejohn, BioteQ Environmental; Frank Michell, American Electric Power


(l-r) Rob Ferguson, French Creek Software; Matt Wangerin, Ashland Water Technologies

Pictured are only a few of the record setting attendance for the 2014 CTI Annual Conference. Our record number was 418 attendees.
Speakers and Participants

Educational Seminar

Top (l-r) Frank Michell, American Electric Power; Kent Martens, SPX Cooling Technologies; Eric Miller-Klein, SSA Acoustics
Bottom (l-r) Toby Daley, Composite Cooling Solutions; LP; Ray Post, ChemTreat, Inc.; Paul Lindahl, SPX Cooling Technologies

Ask The Expert

Top (l-r) Craig Burriss, Amarillo Gear Company; Jim Baker, Consultant; Charles Kuhfeldt, Athelon Solutions; Larry Burdick, SPX Cooling Technologies - Bottom (l-r) Brandon Rees, Cooling Tower Depot, Inc.; Pete Elliott, GE Water & Process Technologies; Natasha Jones, Bechtel Power; Duane Byerly, Rexnord Corporation

Program Committee


Retiring Board Members

Top (l-r) Frank Michell, American Electric Power; Kent Martens, SPX Cooling Technologies; Eric Miller-Klein, SSA Acoustics
Bottom (l-r) Toby Daley, Composite Cooling Solutions, LP; Ray Post, ChemTreat, Inc.; Paul Lindahl, SPX Cooling Technologies

Honorary Life Member

(l-r) Paul Puckorius was nominated as our latest "Honorary Life Member" and was presented with a plaque but Jack Bland, 2012 & 2013 CTI President

Passing of the Gavel

(l-r) Frank Michell (leaving as a Board of Director but will be serving as the Board President; Phil Kiser, GE Power & Water; Trevor Hegg, Evapco, Inc.

A WORD FROM OUR COMMITTEES

Engineering Standards and Maintenance Committee
Annual Conference – Hilton Houston North
February 2-6, 2014

Chair: Bill Howard, Cooling Tower Depot, Inc.
Vice Chair: James F. Blake, Jr., American Lightning Protection
Vice Chair: Ken Mortensen, SPX Cooling Technologies
AdHoc Coordinators: Jim Baker, Consultant & Jon Bickford, Alliant Energy

I. Call to Order/Announcements/Introduction of Attendees - At 3:45 PM, Bill Howard began the meeting. A list of 17 attendees at the Closing meeting is available. Opening had 40 attendees, list available.

II. Lead Task Group Chair Reports

Wood, Metal, and Concrete Materials Task Group [Bill Howard]
- Wood, Jane Hauser [including Redwood, Douglas Fir, Connections, and Plywood] met Monday at 4:15PM. Reviewed final changes to STD – 103, 114, 119, and 134. Completed these revision and the voting task group members approved submitting STD’s 103, 114, 119 and 134 for AD HOC/Public Comment. Designating as Historical: STD – 104 and 117. NDS effects on all of documents is now included.
- New Guideline, Cleaning of Cooling Towers, Philip Poll, Don Zelek – met Wednesday at 2:15PM. Added sections on fill and deck to those on basin cleaning, chemical treatment and disinfection. Added references to BUL-109 Nomenclature and STD-159 Legionella. A complete draft will be ready by Summer Meeting 2014.

Mechanical Equipment Task Group [Dave Suptic, Craig Burris]
- STD-151 – Variable Frequency Drives, Dave Suptic – has been approved by the Board of Directors Summer of 2013.
- New Standard – Vibration, Craig Burris – met Tuesday at 11:45 AM. Reviewed and fine-tuned the Draft. This document is expected to go to AdHoc/Public Review by Summer 2014 meeting.
- Chapter 11 – Electrical Components, Dave Suptic – No Meeting. Draft document is close to complete for the Summer 2014 meeting.

FRP and Plastics Task Group [Glenn Barefoot, Jamie Bland]
- New Guideline – Wood to FRP, John Ahern, Glenn Barefoot, Ken Mortensen – met Tuesday at 10:30 AM. Document purpose was discussed and additional input sought for several sections. Plan is create a full draft and send out for further work by the group.
- New Task Group Guideline on Thermoplastic Products, Don Zelek – met 11AM Tuesday. Outline covering flammability, grades of plastic, flammability, physical properties and support. Draft to be completed by April.
- FRP Siding STD – 131, John Ahern – Standard is now up for Review.

Tower Operations Task Group [Jim Baker]
- STD-203 - Industrial Cooling Tower, Tom Toth – met Wednesday at 3:30 PM to discuss document and recent comments. Expect to detail and send to AdHoc after Summer Meeting.

Hazard & Environmental Protection Systems Task Group [James Blake]
- Chapter 8 (ES&M) Environmental Aspects of Cooling System Operation, James Blake – separated from Chapter 7 (Water). Plan to start with collecting concepts and the last existing document and ask for additional international and Water Treatment input.

Old Business
- Information, R Seismic Factor, Bill Howard – The latest ASCE 7 document now expected to include Rf of 2.0, with some adjustment to continuous columns, height restriction of 50’, brace at every frame, diaphragm at 25% weight levels. Working with Jim Harris detailing the multi-year Test Plan that may include testing at the University of Guadalajara, Mexico.
- Materials Certification – expect Flame Spread to be the first test certification available. Awaiting a technical director.

New Business
- OP304 Document Procedure – Will be trialed with several ES&M documents ready for review. Re-draft is proceeding to the Board of Directors.
- New Document Reviews Due: • Chapter 9 – Ethan Chestnut, • Speed Reducers - Craig Burris, • Lightning Protection – James Blake, • Construction, Safety, and Health – Philip Poll

III. Adjournment – at 10:36 AM
1. Call to Order:
The P&T Committee Chairman, Toby Daley called the opening meeting of the Performance & Technology Committee to order at 15:50 at the North Houston Hilton in Houston, Texas.

2. Attendees

3. AMCA Presentation:
AMCA Presentation: Wade Smith presented informational presentation about DOE plan to enforce Fan efficiency regulation. That would take effect 2019. This will have an effect on the cooling tower industry. This presentation was regarding the cooling tower industry’s potential desired involvement. Decision that a group should be formed through Strategic Issues

4. Active Task Group Concluding Remarks
ATC-105 (Thermal Test Code) Larry Burdick, Chair: The committee will meet on one occasion to discuss Appendix O (Wet bulb instrument standard) and Appendix G.

ATC-128 (Sound Test Code) Jean-Pierre Libert, Chair: The committee will meet once at this meeting to review Ad-Hoc comments.

PFM 143 (Air Flow Measurement Guideline): Not meeting

Sound Testing Task Force – Paul Lindahl, Chair: Not meeting. Awaiting approval from Board.

STD-146 (Water flow Measurement Standard) - David Wheeler, Chair: Not meeting. Awaiting approval of RFQ for pitot study by summer meeting

STD-201 (Thermal Test Certification Program) – Frank Michell, Chair: Will meet once this meeting

STD 202 (Publication of Thermal Test Results) – Paul Lindahl, Chair: Will meet once this meeting. Need to discuss process of reporting following call.

The meeting was adjourned.

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Humor in the Cooling Tower Industry

As we all know, Jim Willa has inspected the inside of a lot of cooling towers. The story goes that he was engaged in the inspection of a tower for a customer who insisted that Jim follow all of the company safety rules and regulations. One of the rules called for Jim to wear a safety harness and be connected to a safety cable. This safety cable was connected to an automatic electric winch. If someone was to fall, a sudden pull on the cable would trigger the winch which would stop the man’s fall and pull him back out of the tower. Jim entered the tower through the access hatch in the fan deck of the cooling tower. He snaked his way around the columns, inspecting for rot and biological attack. When he had gotten almost to the far side of the tower, his tag cable (which now was snaked around several columns) wasn’t quite long enough. Jim took hold of the cable and gave it a pull to get more cable. This triggered the winch, which started pulling Jim back across the top of the drift eliminators, banging him into one column after another. The winch finally pulled Jim up through the access hatch in the fan deck and dangled him above the hole. The man who was assigned the duty as a hole watch looked on with horror as Jim explained to him in great detail what he thought of the safety winch system.
**Water Treating Committee Meeting Minutes**

**Annual Conference – Hilton Houston North, Houston, Texas**

**February 2-6, 2014**

*Chair: Phil Kiser, GE Power and Water*

*Vice Chair: Jim Kanuth, ChemTreat, Inc.*

*Coordinator: Jon Cohen, H-O-H Water Technologies*

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- **WTG-125 Instrumentation & Control**: Mike Dorsey (TG Lead) reported Trey Cook will be leaving Dow and this Task Group, after excellent progress over the past year. No new co-Lead has yet been named. The document is extremely close to completion. Goal of Summer 2014 Meeting submittal to WT Committee and Ad-Hoc. (Matt Wangerin advised of mechanics related within CTI Document CTI OP-304. It was emphasized that the CTI Board only reviews for adherence to the process mechanics being executed properly, not for document content.)

- **WTG-126 Application of Non-Oxidizing Microbiocides**: Jon Cohen remains as acting TG Lead, but was absent from these meetings. This document will include a matrix for Non-Oxidizing biocide actives and required dosage rates of those actives. Bill Pierson reiterated the fact that AWT has completed such a matrix for Non-Oxidizers, and this resource can be used by this Task Group, as long as this specific use is cited/footnoted properly. Bill Pierson and Paul Puckorius noted no new progress on this document had been reported since the Summer 2013 meeting.

- **WTG-130a Corrosion Monitoring**: Matt Wangerin submitted to the group that this Task Group would need to be re-formed, for the purpose of formal Task Group review, per CTI requirements. Wangerin also volunteered to TG Lead, with the next meeting slated for July 2014 at the CTI Summer Meeting. The offer was put forth to the WT Committee membership for any prospective volunteers for this Task Group. They can contact Matt Wangerin via e-mail of their intentions.

- **WTG-130b Deposit Monitoring**: Barb Moriarty, TG Lead, was not present, and it was reported she had left Nalco and would no longer participate in CTI. Matt Wangerin and Pete Elliott have pieces of this document collected to date to provide to a new TG Lead. Bob Cunningham volunteered to be the TG Lead. No additional work has been accomplished since the last Meeting.

- **WTG-130c Microbiological Monitoring**: Paul Schook, the TG Lead, was not present, and was reported to have left Dow. Latria Boudoin, who represented this Task Group at the Summer 2013, was reported to have left Albemarle. Matt Wangerin will contact Paul Schook retrieve the historical body of this document created to date. Matt Wangerin also made an appeal to the WT committee membership for a new leader of this task group to chair WTG-130c. New TG Lead to be named later.

- **WTG-158 Physical Water Treatment**: Bob Cunningham commented on the document to date, stating that data was readily available for reference, as long as proper citations were attributed. The main premise of this document will be to measure the performance of physical water treatment equipment and methods against the same standards use to measure success of traditional chemical water treatment protocols, in the areas of corrosion, deposition, and microbiological control. The new TG Lead, Mark Winter, formally put forth a formal invitation for new membership. Initially, the Title, Scope, and Mission will be evaluated to determine whether to adopt as currently available or re-write, with minor revisions as necessary. Additionally, the group will set a time in April to review progress and to compile a list of literature for use by CTI members, for future reference on this topic. The principal goal for this team is to have a viable document ready for review at the CTI Summer Meeting.

- **WTG-159 Best Practices Guidelines for Cooling Water Systems**: (The TG #159 will be changed.) The Task Group, originally proposed by Jack Bland, will not create a “Standard document”. Rather, it was stated that Best Practices for different industries are needed, as definitions of successful performance do vary for different industrial conditions. Jim Kanuth added that the existing documents for corrosion, deposition, and microbiological control are independent of standards of performance. Bland made an appeal for assistance on this Task Group to outline definite outcomes, and not so much the methods implemented to achieve those outcomes. Jack Bland was named interim TG Lead. Bland will provide a “sanitized version” of a document previously compiled at ChemTreat. A Good/Better/Best tabular structure will be employed. The next teleconference for this group is scheduled for 04/25/14. Background information will be distributed by Bland, with the prospective goal being to include actual examples of Good/Better/Best.

- **STD-149 Corrosion Testing Procedures (2000)**: Art Brunn and Matt Wangerin have reviewed the document, which relates to use of corrosion coupons, and it can be renewed as written without revision at this time.

**General Note**: In light of the unusually high number of TG
Lead absences, and due to members leaving their places of employment, Phil Kiser made an appeal to all prospective TG Leads, to keep him and CTI apprised of all changes in their professional status. Additionally, all TG Leads should hold a minimum of one (1) teleconference prior to the commencement of the CTI Summer Meeting in July.

1. Liaison Reports
   - NACE: No report provided.
   - IWC (Paul Puckorius reporting): The November meeting held in Orlando was extremely well-attended, reported at 725, 20% international. The meeting was considered successful. 250 people participated in 25 workshops. Cooling water, boiler water, and frac water were included in the agenda. The next meeting will be held in Pittsburgh, PA in November of 2014, commemorating IWC’s 75th anniversary. Future meeting locations on the West Coast are under consideration. Overseas chapters are to be established. An appeal for technical papers was also made.
   - AWT (Bill Pierson reporting): Annual convention occurred in October, 2013 at the Mohegan Sun Resort in Connecticut. 120 booths were present. As per usual practice, AWT will conduct 2 Technical Training seminars each year, with 1 held on the east coast and 1 on the west coast of the U.S. The matrices for oxidizing and non-oxidizing biocides have been completed. Also the corrosion monitoring document has been completed. AWT is now working with ASTM on a Cooling Systems Best Practices document, with the title, purpose, scope, and overall document template completed, to date.
   - ASHRAE (Bill Pierson reporting): STD 188P has been in the public approval process for nine (9) years. Recently, the Committee Chair was replaced by Tim Watson. Mr. Watson brings extensive standards development expertise with him. June 2015 is projected as the time line for official adoption of the document, following the 4th Public Review. Currently, the title and purpose are being revised, to remove “HACCP” references, however the theme of risk management remains as the principal focus. New contributors to the document providing input, which will undoubtedly add time to the overall process for approval. Also, ASHE has been lobbying to have hospitals excluded from the purview of 188P. The next ASHRAE meeting is scheduled for late October 2014 in Fort Worth, TX.

2. Old Business
   - Ideas for new CTI R & D Committee research projects are solicited. Proposals, which require a formal scope and budget, will be channeled through the CTI Board. Bill Pierson offered that the research subcommittee at ASHRAE is looking for research projects to co-fund.
   - Matt Wangerin promulgated the need for Water Treatment Panel Discussion topics. These topics are to be submitted to Wangerin for consideration. New topic discussion ideas might include: Instrumentation and Control - this might also herald in the new document being developed; New Cooling Tower Commissioning Specification Clarification/Improvement - finalizing of this idea is still under consideration; Regulatory Environment Changes; and Water Reuse for Cooling Water Systems, reflecting current geographical drought conditions. Matt Wangerin reported that attendance was 65 at the 2014 WT Panel Discussion, and that much positive feedback was received regarding this session.

3. New Business
   - Phil Kiser will assume the role of Water Treating Committee Chairman on 2/6/14.
   - Jim Kanuth will remain as Vice-Chairman of the Water Treating Committee.

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**Future Meeting Dates**

**Committee Workshop**
- July 13-16, 2014
  Sheraton Steamboat
  Steamboat Springs, CO
- July 12-15, 2015
  Tradewinds Island Resort
  St. Pete Beach, FL

**Annual Conference**
- February 8-12, 2015
  Sheraton New Orleans
  New Orleans, LA
- February 7-11, 2016
  Hilton Houston North
  Houston, TX
- February 5-9, 2017
  Sheraton New Orleans
  New Orleans, LA
- February 4-8, 2018
  Hilton Houston North
  Houston, TX
The summer agenda will include committee work on:

- Wood standards (Redwood, Douglas Fir, Connections, Plywood, etc.)
- Corrosion in Concrete Towers
- Cleaning Cooling Towers
- ESG-153 Recommended Guidelines for Portland Cement
- Tower Vibration Standard
- Wood to FRP
- BUL-109 Nomenclature
- Chapters 7 and 8 Environmental aspects of Cooling Towers
- ESG-120 Lightning Protection Guidelines
- STD-203 Industrial Cooling Towers

CALL FOR PAPERS

2015 Annual Conference
February 8-12, 2015
Sheraton New Orleans
New Orleans, LA

The following schedule will begin the process for papers presented at the 2015 Annual Conference:

2014
- June 6: Deadline for Abstracts
- June 27: Authors Notified by Program Chair
- Aug 8: One (1) electronic copy of draft must be sent to CTI office for review
- Nov 7: Final draft, based on review comments and slides due in the CTI office

Abstract Forms can be obtained by contacting the CTI office at 281.583.4087 or at our website www.cti.org
CTI 2014 Committee Workshop

CTI Annual Golf Tournament

• Rollingstone Ranch Golf Club • Sunday, July 13, 2014
• 8:00 am Tee Time • Cost - $125

Rollingstone Ranch Golf Club at the Sheraton Steamboat Resort features one of the best golf courses in Colorado's Rocky Mountains. A spectacular 18-hole course, designed by Robert Trent Jones II, features incredible views of the Yampa Valley, while Fish Creek winds its way through seven of the holes. The 66 bunkers and large, undulating bent grass greens make this a truly championship caliber course to be enjoyed by players of all skill levels. For these reasons, Fairways Magazine voted Rollingstone Ranch Golf Club as one of its 100 best golf courses.

Each golfer (or individual) is responsible for their own drinks, snacks and transportation.

CTI 2014 Committee Workshop

Monday Evening, July 14, 2014 - 6:00p – 9:30p at the Bear River Bar and Grill

(located on the 1st level of the Sheraton)

Monday Evening's dinner/hospitality suite is open to all CTI Attendees and guest for the all American meal of hamburgers and hotdogs. All the fixins will be available along with potato salad, watermelon and chips! There will be a DJ on site to keep us hoppin' and all of this at NO CHARGE! Just be sure to let us know (when registering for the Committee Workshop) how many will be in your party.

• Monday Evening • No Charge
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

Exhibitors to date:

- EvapTech
- ChemTreat, Inc
- Design controls
- C.E. Shepherd
- FasTec
- Structural Group
- GEA 2H Water
- Composite Cooling Solutions
- French Creek Software
- Baltimore Aircoil
- IMI Sensors
- Sonitec-Vortisand
- Hewitech GmbH
- Midwest Cooling Tower
- McHle & Associates
- Proco
- SPX Cooling Technologies
- Dynamic Fabricators
- Glocon
- Aggreko
- Amarillo Gear
- Bedford Reinforced Plastics
- Hudson Products
- Cofimco
- Rain For Rent
- G&G Marine
- Clean Air Engineering
- Tower Tech
- Strongwell
Registration Form
Committee Workshop July 13-16, 2014
Sheraton Steamboat, Steamboat Springs, Colorado

Name_________________________________________________ Nickname for Badge _______________________
Company____________________________________ Spouse Name if Attending _______________________
Address___________________________________ City __________________ State _______ Zip _______ 
Phone ____________________________ FAX ____________________ Email: ____________________________

☐ Full 3 Day Registration $450.00 ....... $475 after June 26
☐ Golf Tournament (Handicap___________) Tee Time Begins @ 8:00a $175/pp ....... Closed July 2
   Spouse Name ____________________________ (Handicap___________) $175/pp ....... Closed July 2
☐ I will attend Monday Night's Dinner N/C
☐ I will bring ______ guest with me for Monday Night's Dinner N/C

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 June 26.)

REFUNDS WILL BE MADE IN FULL FOR CANCELLATIONS MADE PRIOR TO JULY 2, 2014.
15% CHARGE ON ANY CREDIT CARD REFUND MADE - NO EXCEPTIONS!

2014 Committee Workshop, July 13-16, 2014
Sheraton Steamboat, Steamboat Springs, Colorado

The 2014 Committee Workshop will be held at the Sheraton Steamboat, Steamboat Springs, Colorado, July 13-16, 2014. The Sheraton Steamboat Resort offers a wide variety of exciting activities for the outdoor enthusiast including golfing, horseback riding, fly fishing, hot air balloon rides, rafting and tubing. Whatever your adventure, you'll find an experience unlike any other. When making reservations be sure to mention that you are with the CTI Conference

Sheraton Steamboat Reservations: 970.879.2220

Be sure to mention you are with the Cooling Technology Institute for our group rate or go online to www.starwoodmeeting.com/StarGroupsWeb/booking/reservation?id=1403245360&key=ID63A5EF

Guest Room Rates: (Cut off Date: Wednesday, June 18, 2014):
• $154.00/plus taxes - Single Rate  • $154.00/plus taxes - Double Rate
Hotel room rates are subject to applicable state and local taxes and resort fees.
Dorothy R. (Garrison) Hawkes

Dorothy Ruth (Garrison) Hawkes was born September 2, 1932 in Hall, Texas and passed away on August 27, 2013 in Montgomery, Texas. She is survived by her devoted husband David, and her sister Anne McFarland and niece Paula McFarland. Dotty spent a lifetime of service with many organizations, particularly with the Cooling Technology Institute and in later years with Saint John's Retreat Center in Montgomery.

2014 Board of Directors

President ...................... Frank Michell
Vice-President .......... Anthony DePalma
Treasurer ................. Steve Chaloupka
Secretary ............... Tom Toth

Director .................. Billy Childers
Director .............. Jon Cohen
Director ...... James Cuchens
Director .......... Natasha Jones
Director .......... Helene Troncin
Director ...... George Zubritsky

Press Release
Contact: Chairman, CTI Multi-Agency Testing Committee

Houston, Texas, 1 May 2014

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, 2014, at the CTI address listed.