



CTI NEWS

COOLING TECHNOLOGY INSTITUTE • HOUSTON, TEXAS

VOLUME LII

SPRING & SUMMER 2010

NUMBER 1



Mark Your Calendar!

Committee Workshop
July 11-14, 2010
Marriott Pyramid North
Albuquerque, NM

Annual Conference
February 6-10, 2011
Westin Riverwalk
San Antonio, TX

2010 Committee Workshop

July 11-14, 2010

Registration Form

on our website
www.cti.org

Inside...

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- Planned Activities for the 2010 Committee Workshop



Jess Seawell

Message From The President...

The last two years of the CTI, under the leadership of our past president - Denny Shea has been an exciting time, and many new and forward thinking ideas have been initiated. A new exuberance by membership in our technical organization has blossomed at the same time that high interest in the Cooling Technologies Institute has occurred internationally as cooling technology and cooling tower requirements have spread to new areas worldwide. Our largest growth in new members is from the International sector and we welcome their participation.

Our summer committee workshop is being held in Albuquerque, New Mexico at the Marriott Pyramid North. The summer committee workshop is our most important meeting since this is where and when the CTI codes and standards are written, reviewed and revised on an annual basis. This is where the hard work is done. If any member wishes to really understand cooling tower technology at the "in depth" level, then active participation at the summer meeting and the individual task groups is the place to be.

There are three Standing Technical Committees where the work is assigned to various task groups. The committees are divided into three main areas of interest and technology -Engineering Standards and Maintenance (ES&M), Performance and Technology (P&T), and Water Treatment. The task group schedules for all committees are now maintained on a master schedule that clearly defines the status of each code or standard. This master schedule, complete with the status of every CTI document will be posted on our web site in the near future.

This year, through Bill Howard's efforts, we have initiated an "Ambassador Program" to assist new first time attendees in understanding the standards review process, how to get involved and to help direct them to the committee and task group workshops that they have interest. New attendees - Please search out an ambassador at the summer workshop for assistance in "learning the ropes".

There are numerous other business opportunities that have arisen that could further improve CTI's technical position in the Industry and CTI has formed steering

committees to evaluate these opportunities and in conjunction with the Finance Committee will provide direction for a long term business plan that will be eventually submitted to the CTI board for approval. Examples of these opportunities are as follows:

In the early 1990s, CTI began the present "Thermal Certification Program" for package towers. That program has grown from a few USA manufacturers in the early years to over 62 lines of cooling towers worldwide are now thermally certificated to meet a minimum performance standard per CTI Code ATC - 201. Manufacturers all over the world now participate and CTI and Eurovent are negotiating an agreement of mutual recognition for our respective members. This program, under Tom Weast's management, has become a model for quality certification programs. Tom has advised that in the next few years he will be retiring and that CTI needs to prepare for that day. A new Committee - "The Continuation of the Thermal Certification Committee" has been formed and has been charged with submitting a business plan for a smooth transition to the CTI BOD by the Annual Conference in 2011. Tim Facius is Chairman of this newly formed committee and certainly appreciates any input or recommendations that you can offer.

Along these lines, since Thermal Certification has proven to be so well accepted worldwide, CTI has formed a committee to evaluate the possibility of CTI certifying other products and materials to CTI standards and codes. This committee is being chaired by Toby Daley and considerable discussions on this subject will occur at the summer workshop.

The world today is an electronic media world - CTI introduced our website a number of years ago. We are planning to update this site and offer considerable more information to our members electronically. Rich Aull is the Chairman of the new Website Committee and welcomes your input.

CTI has for many years wished to be more involved with our membership on R & D projects that would be beneficial to our members and the industry - Tom Bugler has been appointed the Chairman of the Research and Development Committee and has a num-

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2010 CTI Board of Directors

Serving as President for 2010 and 2011

Jess Seawell

Composite Cooling Solutions, L.P.



2008-2010

2009-2011

2010-2012

Manufacturers



Ken Mortensen
SPX Cooling
Technologies



Tim Facius
Baltimore Aircoil
Company



Frank Foster
Tower Performance
of Texas

Suppliers



Gary Geiger
GE Water and
Process Technology



Helen Cerra
ChemTreat, Inc.



Don Zelek
Brentwood
Industries

Owner Operators



Chris Lazenby
Southern Company
Services



Jon Bickford
Alliant Energy



Denny P. Shea
Shea Top Dog, Inc.



Meet 2010's Newest Board Members!



Frank Foster
Tower Performance
of Texas

Frank started with Tower Performance Inc. in 1977 working in the New Jersey office. In 1980 he became Vice President of Operations in the Houston, Texas office. Tower Performance has been an active member in the CTI since 1969 and Frank has been involved since he joined Tower Performance, Inc. Over the past 15 years Frank has worked with the Membership Committee, serving as both Vice Chair and now as Chairman.



Don Zelek
Brentwood Industries

Don has been in the cooling tower industry for over 20 years. He has worked for Brentwood Industries since 1988 as their service manager. He has been involved with CTI for about 18 years in P&T and more recently ES&M, and has presented a paper. He has a BS degree in Electrical Engineering from Wilkes University and a MBA from Kutztown University.

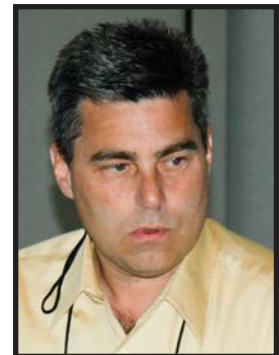


Denny P. Shea
Shea Consulting Services, Inc.

His entire career has been spent in the design, operation and maintenance of Utility Systems. He is currently responsible for the technical support for the design, operation, and trouble-shooting of Utility Systems (Water Systems, Boilers, Air Compressors, Cooling Towers) at all Solutia Plants. His specialty is Water Treatment Systems for Primary Treatment Systems, Boiler Feedwater Systems and Cooling Tower System. CTI – Member 1976 to present, Board of Directors 1993 – 1995, CTI roles: “Ask The Expert” - Moderator, Policies and Procedures Chairperson, Water Treatment Committee Member, Safety Committee Member. He has presented technical papers on many different operational issues at both CTI and International Water Conference.

2010 Water Treating Committee Chair

Matt Wangerin is currently the Cooling Water Business Manager for Ashland Hercules Water Technologies. He has over twenty years experience in various aspects of water treatment, having started his career as a metallurgist and failure analyst before moving into the commercial part of the business and product management. He has co-authored papers for the Cooling Technology Institute (CTI) and NACE. Matt holds Master of Science degrees in Materials Science and Management from the Stevens Institute of Technology.



Matt Wangerin
Ashland Water Technologies

Message From The President con't from p.1

ber of potential R&D projects that will be of great interest to the industry and we hope to have planning finalized at the summer meeting and presented to the finance committee for funding.

As you can see, there is much CTI business to be performed this summer. We have many codes and standards to address, business

topics to be discussed and long term decisions to be made. We look forward to having you attend the meetings and taking an active part. I look forward to seeing you in Albuquerque this summer.

Respectfully submitted,
Jess Seawell, CTI President

2010 Annual Conference



(l-r) Bob Cunningham, Arthur Freedman Associates; Jasbir S. Gill, Nalco Company; Vadim Malkov, Hach Company



(l-r) Casey Yurkovitch, GEA Power Cooling, Inc.; Philip Poll, OBR Cooling Towers, Inc.; Javier Balma, Water P Moore & Associates



(l-r) Dustin Troutman, Creative Pultrusions Inc; Jennifer Hamilton, Evapco, Inc; Mike Bickerstaff, Composite Cooling Solutions, LP; Daniel Cicero, Nalco Company



(l-r) Robbie McElveen, Baldor Electric Company; Mike Bickerstaff, Composite Cooling Solutions, LP; Dave Suptic, David M Suptic, P.E., LLC



(l-r) Kevin Michols, Wiss, Janney, Elstner Associates, Inc.; Frank J Bowman, Composite Cooling Solutions, LP; David McLachlan, Fluid Treatment Solutions, Inc.



(l-r) Paul Lindahl, SPX Cooling Technologies; Mark Shaw, Black & Veatch Corporation; Tom Weast, Cooling Tower Test Association, Inc.

Speakers and Participants

Ask-The-Expert Session



Front Roll (l-r) - Dave Suptic, David M. Suptic, P.E., LLC; Jasbir Gill, Nalco Company; Jean-Pierre Libert, EvapTech, Inc.; Back Roll (l-r) - Jim Cuchens, Southern Company; Frank Michell, American Electric Power; Rob Ferguson, French Creek Software; Jim Baker, Composite Cooling Solutions, LP

Educational Seminar



Panelist (l-r) - Jane Heuser, GEA Power Cooling, Inc.; Dustin Troutman, Creative Pultrusions Inc.; Jamie Bland, Composite Cooling Solutions, LP; Tom Toth, Midwest Towers, Inc.

Honorary Life Member



Robert (Bob) Miller

Passing the Gavel



Dennis Shea, President for 2008-2009 passes the Gavel to Jess Seawell serving CTI as President for 2010-2011

Press Release

Contact: Chairman, CTI Multi-Agency Testing Committee
Houston, Texas, 1 May 2010

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, 2010, at the CTI address listed.

Standard / Chapter

Revised:

ESG-152 - Structural Design of FRP Components - This guideline provides minimum design standards and cautionary recommendations to designers of FRP structural cooling towers. Revised March 2010 - \$10.00

Chapter 12 - Field-Erected Cooling Tower Fire Protection - This chapter does as the title suggest, provides fire protection considerations for field erected cooling towers. Revised March 2010 - \$10.00

A WORD FROM OUR COMMITTEES

Engineering Standards and Maintenance Committee

Annual Conference – The Westin Galleria, Houston, Texas

February 8-10, 2010

Chair: Jim Baker, Composite Cooling Solutions, LP

Vice Chair: Chris Lazenby, Southern Company Services

Vice Chair: Craig Burriss, Amarillo Gear Company



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

General Session

Call to Order/Announcements –

Meeting was called to order at 1:06 p.m. on February 10, 2010. Jim Baker noted that even though this meeting was the formal closing for ES&M as a whole, there were still five task group meetings scheduled to take place at various times on the afternoon of February 10.

Reports from Lead Task Group Chairs –

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

- The 'R' Factor task group met and continues to gather more information. The group may solicit a proposal from Jim Harris, who spoke at the 2009 Summer Meeting, to participate in the group's efforts.
- The new Concrete Restoration standard should be ready for ad-hoc by the summer.
- The International Woods standard task group will need time to meet at the Summer Meeting.

Mechanical Equipment Task Group – Craig Burriss

- STD-151, Variable Frequency Drives, met. There was one change to the document to make then the task group would conduct an online vote and try to get the document to the Board by the Summer Meeting.
- Chapter 10 had a few more small revisions and would hopefully be voted on by the task group next month in preparation for being ready for a Board vote by the Summer Meeting.
- The Vibration Standard (new) and Chapter 11 groups were scheduled to meet following this meeting.

FRP and Plastics Task Group – Glenn Barefoot

Glenn Barefoot was not present, so Jane Heuser and Jamie Bland attempted to recall the status of the group's meetings and documents.

- ESG-152 should be ready to go to the Board.
- STD-137 had been approved by the Board.
- The Wood-to-FRP Connection Guideline group met, but not much progress was reported.

Tower Operations Task Group – Chris Lazenby

- The Chapter 13 task group is scheduled to meet later this afternoon.
- Chapter 1 and Chapter 4 have been through ad-hoc and are in the process of getting re-formatted to send to the Board.
- A couple of people agreed to review STD-203 (Industrial Cooling Towers) and ESP93-01 (Guidelines for Cooling Tower Repair). If anyone else was interested in doing so, contact Chris and he'd get a copy to you. It may be possible that these documents could be reaffirmed rather than opened. If necessary, task groups would be formed at the Summer Meeting.

Hazard & Environmental Protection Systems Task Group – James Blake

- Denny Shea will and the group working on Chapter 8 were about 2/3 of the way through.
- The new Field Erection Practices guideline task group was formed on Monday. Gregg Mailen will co-chair.
- Gerald Hart of G&G Marine expressed interest in helping to create a guideline for basin cleaning. Jim Baker suggested that he submit an outline of what would be covered in such a document and then Jim could determine whether it needed to be a separate standard or just added to an existing document.

General Comments –

- Jim Baker asked when new standards, such as the Vibration Standard, were assigned numbers. Bill Howard reported that this occurred when the document was sent to the Board for approval.
- Bill Howard reported that the fan stack task groups were going to meet this afternoon.
- Tom Toth registered a complaint as to the 2012 Summer Meeting being scheduled for Tuscon.
- Dave Sayker reported that the Chapter 10 document that the task group received from the CTI Office was in .pdf

ES&M Minutes continued on page 7

Performance & Technology Committee Meeting Minutes

Annual Conference – The Westin Galleria, Houston, Texas,
February 8-10, 2010

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.

I. Call to order

Ken Hennon, Chairman, called to order the opening meeting of the Performance & Technology Committee on February 8, 2010 at 3:30 PM at the Westin Galleria in Houston, TX.

Rich Aull was present as Vice-Chairman. Vice chair, Jean-Pierre Libert was not present for the opening meeting because of travel difficulties but participated in the majority of the task group meetings.

Participants for the opening meeting included:

Mark Shaw	Tim Facius	Tom Larson
Tom Weast	Rich Harrison	Dick Desjardins
Paul Lindahl	Barry Woods	Jim Cuchens
Frank Michell	Gene Culver	Michael Monjoie
Don Zelek	Matt Lampo	Rich Aull
	Ken Martens	

II. Active Task Groups

a) ATC-107 convened at 10:00 am CST on Tuesday, February 9. A draft document incorporating the changes suggested by the ad-hoc reviewers and approved by the committee at the previous meeting was presented. A few minor changes were

suggested and approved. Because of the light attendance at the meeting, it was suggested that the draft be submitted for an e-mail ballot.

b) ATC-140 (Drift Test Code) met on February 9 from 10:00-10:30 and discussed the one outstanding assignment and equation corrections. The committee unanimously voted to approve the draft. The document will now go to ad hoc review.

c) Because of limited time, the ATC-150 (Plume Abatement test code) Task Group did not meet.

d) STD-202 (Standard for Publication of Custom Cooling Tower Thermal Performance Test Results) met on both February 8th and February 9th and discussed the publication of thermal performance test results, and there was a lot of discussion between potential participants regarding possible data format and what specific data would be presented. A draft will be generated by the Chair and distributed by the middle of March. A conference call will be organized about 2 weeks after distribution of the document for discussion.

e) STD-201 (Certification Standard for Commercial Cooling Towers) met following the Certification Committee meeting to discuss issues raised during the Certification Committee meeting. The two major topics of discussion were the pitot tube calibrations and publication of certification data.

f) ATC-105 (Thermal Test Code) Task Group met to discuss areas of focus and initial assignments for the newly re-opened test code.

g) P&T Tech Review had a brief meeting to discuss documents under review and to make review assignments to committee members in preparation for a phone meeting to occur prior to the summer meeting.

III. New Business

General P&T discussions were held about the need to form a new task group to open STD-146 and review alternate pitot tube designs and/or calibrations.

ES&M Minutes continued from page 6

format that the group had trouble recreating all of the figures, charts, etc. for the revised document. He suggested that someone (in ES&M or at the Office) save the source document files in Microsoft Word so that they could be used for future document reviews.

- Jamie Bland asked that anyone who had potential ideas for the 2011 Education Seminar to e-mail them to him.

New Business –

- Bill Howard reminded everyone to get their attendance sheets to James Blake.
- Chris Lazenby asked everyone to get their task group minutes to him.

- Jim Baker mentioned a new committee that had been formed by Jess Sewell to look at certifying materials and components under the CTI umbrella. He noted that if this committee moves forward, it would likely produce a significant degree of work for ES&M.
- Ken Mortenson reminded everyone that the draft of the new ASCE Code was scheduled for public review in the summer. If anyone wanted to receive a copy to review, they should let Glenn Barefoot or Dustin Troutman know.

Adjournment –

With no further business before the Committee, the meeting was adjourned at 1:28 p.m.

Water Treating Committee Meeting Minutes

Annual Conference – The Westin Galleria, Houston, Texas,
February 10, 2010

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) Jim Kanuth, ChemTreat, Inc.; John Zibrada, ZIBEX, Inc.; Matt Wangerin, Ashland Water Technologies

Chairman Zibrada reported the Water Treating Panel Discussion was well attended with 65 audience members in the room. With audience questions, it ran 20 minutes past its scheduled time with no attrition in audience numbers. The Symposium presented 11 papers. There were approx. 50 people at the various Water Treating meetings. The summer meeting is scheduled to begin July 11th in Albuquerque, New Mexico.

Task Group (TG) Reports:

Oxidizing Biocide – Jon Cohen - The TG finished work on the document and it is now ready for Ad-Hoc. The TG Chairman will forward it to the Water Treatment Chairman for Ad-Hoc distribution.

White Rust – Tom Bugler - WTG 142 is near complete following a two hour TG meeting. The “cleaned up” paper will be emailed to TG members for final comments/corrections and should be ready for Ad-Hoc by the summer meeting.

Deposit Monitoring – Jasbir Gill - The TG has been reconstituted under new chair Gill. Following the meeting yesterday, the members have agreed to move forward starting with the current somewhat disorganized draft.

Green Chemistry – Mike Gilpin - The TG met and organized their work forward under the new TG Chairman.

Filtration – Clarence Melancon - The document was completed with Ad-Hoc comments addressed. The final version was provided to the WT Chairman for transmittal to the BOD.

Non-Chemical Water Treatment Devices – Bob Cunningham - The TG is attempting to narrow the scope to only those devices directly involved in corrosion/microbiological fouling/scaling and fouling of cooling water systems (excluding filters). They will attempt to agree on an agenda prior to the summer meeting.

Instrumentation and Control – Mike Dorsey - Scope development is underway and Phil Kiser has been appointed TG Vice Chairman, as The Chairman may have limited attendance due to corporate travel restrictions. They plan at least one teleconference between now and the summer meeting to agree on the agenda and make writing assignments. WT Vice Chairman will email the last TG member list he has to Mr. Kiser.

Microbiological Monitoring – Jana Rajan - A starting draft is available. The TG identified numerous deficiencies in formatting which makes it difficult to interpret. It will be reworked by the summer meeting.

New Business

Of the ideas put forth for a Panel Discussion next year, it seems to be the consensus that water reuse may work well for San Antonio. SAWS has published at CTI on their water reuse efforts in past years. A final decision on Panel Discussion topics will be made at the summer meeting.

The idea of a statistical summary of water treating experience was brought forth again. No one in the room who may have the data to produce such a summary volunteered to share it.

Mr. Zibrada announced that his term as Chairman was ending. Mr. Wangerin (former co-Chairman) will assume the position of Chairman. Mr. Kanuth will function as Vice Chairman. Additional positions will be filled by the new Chairman.

Motion to adjourn by Mr. Brunn was seconded by Mr. Zibrada.

NOTE: Minutes from February 8, 2010 can be viewed on CTI's website - www.cti.org.

Don't forget to reserve your space for the 2011 Table Top Exhibits. There are only forty-eight exhibit spaces available at \$1200/space (see page 10). For more information contact Virginia Manser at 281.583.4087 or vmanser@cti.org



2010 Committee Workshop Agendas

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 2010 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

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 2010 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.

CALL FOR PAPERS

2011 Annual Conference
February 6-10, 2011
The Westin Riverwalk
San Antonio, Texas

The following schedule will begin the process for papers presented at the 2011 Annual Conference:

2010

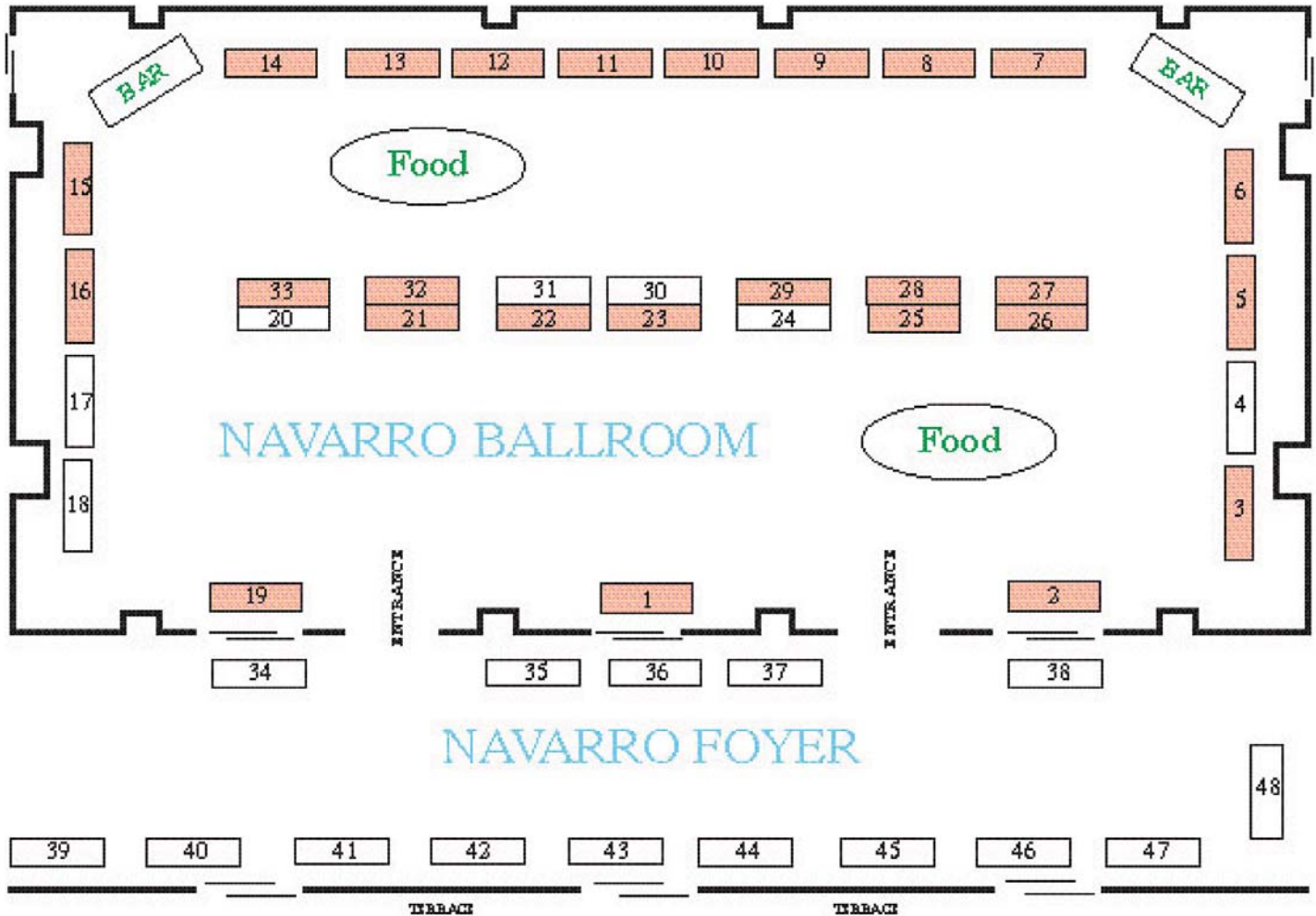
- June 7: Deadline for Abstracts
- June 18: Authors Notified by Program Chair
- Aug 6: Six (6) copies of draft must be sent to CTI office for review
- Nov 5: Final draft, based on review comments and slides due in the CTI office

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



Table Top Exhibits

Tuesday, February 8, 2011 • 4:00p - 9:00p
Westin Riverwalk, San Antonio, Texas



**Don't forget to reserve your space.
A total of 48 exhibit spaces available at \$1200/
space with 1/2 already reserved (sold spaces
indicated by red boxes)**

**for more information contact
Virginia Manser at
281.583.4087 or vmanser@cti.org**

Registration Form

Committee Workshop July 11-14, 2010 Marriott Pyramid North, Albuquerque, New Mexico

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 2**
- Golf Tournament** (Handicap _____) Tee Time Begins @ 8:00a \$110/pp Closed July 2
Spouse Name _____ (Handicap _____) \$110/pp Closed July 2
- Monday Night at El Pinto Restaurant** (No. Adults _____) \$ 70/pp Closed July 2
No. Kids 15 and under (_____) \$ 35/pk Closed July 2

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 2.)

REFUNDS WILL BE MADE IN FULL FOR CANCELLATIONS MADE PRIOR TO JULY 2, 2010.

15% CHARGE ON ANY CREDIT CARD REFUND MADE - NO EXCEPTIONS!

2010 Committee Workshop, July 11-14, 2010

Marriott Pyramid North, Albuquerque, New Mexico



The 2010 Committee Workshop will be held at the Marriott Pyramid North, Albuquerque, New Mexico, July 11-14, 2010. Plan to arrive early and participate in golf, tour the Santa Fe (just an hour away), go hiking, maybe even do white water rafting. Actually the sky is the limit.

*Make your room reservations **NOW***

MarriottPyramid North Reservations: 800.262.2043

(be sure to mention that you are with the CTI conference)

<http://www.marriott.com/hotels/travel/abqmc?groupCode=ctictia&app=resvlink&fromDate=&toDate=>

Guest Room Rates: (Cut off Date: Wednesday, June 18, 2010):

*Single/Double Rate: \$145/\$150.00 plus tax • Executive Suite: \$155/plus tax • King Suite: \$175.00/plus tax
Hotel room rates are subject to applicable state and local taxes and fees.*

COMMITTEE WORKSHOP PLANNED ACTIVITIES



Monday Evening, July 12, 2010

Dinner at the El Pinto

- CTI Attendees & Guest - \$70
- Guest 15 & under - \$35

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

Serving: Toss Salad w/ vinagerette, Red Chille Cheese Enchiladas, Green Chile Chicken Enchiladas, Aztec corn, Beans, Rice, Roasted New Potatoes, Oven Roasted Turkey and Flan for Dessert - Included w/the meal: Guacamole and Chile con Queso, Tostadas, Jalapeno Salsa, Sopapillas w/honey.

Entertainment provided by Los Primos

2010 Board of Directors

President	Jess Seawell	Director	Jon Bickford	Director	Kenneth Mortensen
Vice-President	Chris Lazenby	Director	Frank Foster	Director	Dennis Shea
Treasurer	Tim Facius	Director	Gary Geiger	Director	Don Zelek
Secretary	Helen Cerra

CTI NEWS
COOLING TECHNOLOGY INSTITUTE
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- Terry Ogburn, Editor-in-Chief
- Art Brunn - Chairperson
- Publications Committee
- Virginia A. Manser, Managing Editor
- Donna A. Jones, Administrative Assistant

CTI News published continuously since May 1962. Published by the Cooling Technology Institute, Established in 1950.

Address Service Requested

Time Value - Deliver by June 4, 2010

