



CTI NEWS

COOLING TECHNOLOGY INSTITUTE • HOUSTON, TEXAS

VOLUME L

SPRING & SUMMER 2008

NUMBER 1



Mark Your Calendar!

Committee Workshop
July 6-9, 2008
Hyatt Regency, Orange
County
Garden Grove, CA

Annual Conference
February 8-12, 2009
The Westin, Riverwalk
San Antonio, TX

**2008 Committee
Workshop**
July 6-9, 2008
**Registration Form
on our website**
www.cti.org

Inside...

- 2008 Board of Directors
- Bio's of the newest Board Members
- Pictures of the Annual Conference speakers, Ask the Expert Panelist
- A Word from our Committees
- 2008 Committee Workshop Agendas
- 2008 Committee Workshop Program at a Glance
- 2009 Table Top Exhibits
- 2009 Table Top Exhibit Information
- Planned Activities for the 2008 Committee Workshop
- Hotel Information and Registration Form



Dennis P. Shea

Message From The President...

I owe Steven Chaloupka a big **THANK YOU** for his last two years as president of CTI. He has continued moving CTI forward. I also want to thank our out going board members Tom Bugler, Jim Kanuth and Ken Kozelski for their time and dedication over the last three years. Without these

dedicated individuals and all the other members who serve on our various committees CTI would cease to be the fine organization it is.

The only way any volunteer organization can be viable and growing is through the efforts of individual members and member companies. I am a firm believer in the individual because the individual makes the difference in anything that happen in a society. Everything comes down to one (1) individual who takes the initiative to do something to make a difference. It is the individual that is the key to the long running success of CTI.

A goal of mine is help every owner-operator to understand their importance as an individual. It is the engineer, technician or operator in the field that is operating and maintaining cooling system everyday that has key information it takes to drive the improvement of manufacturers and suppliers products and/or services.

The manufacturing process is a circle – an Owner-Operator has a need. A Manufacturer or Supplier provides a product or service to fill the need. The Owner-Operator provides feedback on how well the product or service filled the need and what would have made it better. Manufacturers and Suppliers take the feedback and improve their products or services.

CTI needs more Owner-Operators to help the Manufacturers and Suppliers improve their products and services. The more individuals from these three groups that are participating in CTI the better Manufacturers and Suppliers can improve their Products and Services. Owner-operator managers do not always see the benefits of the participation of their engineers, technicians or operators. The sharing of owner-operator needs is what drives the engine of production. The

answer to the question “*What is the benefit of attending the CTI Technical Meeting to my company.*” Attendance at CTI make it possible for the owner-operators needs to be heard by manufacturers and suppliers companies. Owner-Operator participation in CTI committees provide feedback to manufacturers and suppliers, so owner-operator companies get what they need to make their products cheaper and more efficiently because the cooling systems are being maintained better and have longer on-stream time without cooling tower system problems.

Our summer technical meeting is July 6-9 in California. We are receiving reports from Hotels that many people are already signing up to attend. I invite you to consider what your needs are? What do you need to know? More importantly what do you as an individual need to tell the Manufacturers, Suppliers and Owner-Operators that you need?

See you all in California

Dennis P. Shea
CTI President

Got a Cooling Tower Question?

Ask the EXPERT

www.cti.org

2008 CTI Board of Directors

Serving as President for 2008 and 2009

Dennis P. (Denny) Shea
Shea Top Dog, Inc.



2006-2008

2007-2009

2008-2010

Manufacturers



Rich Harrison
Baltimore Aircoil
Company



Jess Seawell
Composite Cooling
Solutions, L.P.



Ken Mortensen
SPX Cooling
Technologies

Suppliers



Bob Giammaruti
Hudson Products
Corporation



Randy White
C. E. Shepherd Co.,
LP



Gary Geiger
GE Water and
Process Technology

Owner Operators



Mark Shaw
Black & Veatch



Frank Michell
American Electric
Power



Chris Lazenby
Southern Company
Services



Meet 2008's Newest Board Members...



Kenneth Mortensen
SPX Cooling
Technologies

Kenneth P. (Ken) Mortensen is a Research and Development Project Manager for SPX Cooling Technologies. Has managed several engineering and operations departments responsible for water quality, material selection, and physical application criteria for cooling towers and components, as well as design, manufacture and servicing of water treatment equipment and installations. Ken has been with SPX/Marley for 28 years.

Ken graduated in 1977 with a Bachelor of Science Degree in Chemical Engineering from Massachusetts Institute of Technology and completed an MBA at Rockhurst University in Kansas City, Missouri in 2000.

Ken is the author of a number technical papers on subjects including "Use of Low Clog Film Fill in Cooling Towers", "Use of Recycled Water in Cooling Towers", "Cooling Tower Technology for Geothermal Application", and "Use of Ozone Water Treatment for Cooling Water". Ken holds Patents for Fire-resistant Fiberglass Cooling Tower Design and Low-Fouling Cooling Tower Film Fills and Registered engineer in the State of Kansas.

Ken lives in Bonner Springs, Kansas with his wife Rachel and Riley 15, Randa 12, and Jarod, 9 years old.



Gary Geiger
GE Water and
Process Technology

Gary Geiger is a Senior consultant with GE Water and Process Technologies (GEWPT). He has over 33 years of water treating experience with GEWPT in the field of Cooling Water Treatment and Application. His experience includes 16 years in the Research and Development Department as a Senior Research Scientist in the Cooling Water Group and as a Manager of the Industrial Process Group. He has developed many cooling water treatment programs and deposit control treatments for the process industry. Gary holds a BS degree in chemistry from Temple University and has 11 US Patents and 14 foreign patents. He is a member of the National Association of Corrosion Engineers, the American Chemical Society and the Cooling Technology Institute.



Chris Lazenby
Southern Company
Services

With the exception of a brief hiatus, **Chris Lazenby** has been employed with Southern Company for over ten years. After spending a brief period of time working in support of the company's Vogtle Nuclear Plant in Augusta, Georgia, he transitioned to his current role in the company's Technical Services department. During this time he has worked on the conceptual design, specification, bid review and evaluation, manufacturing and construction support, shop and field testing, inspection, and retrofitting of power plant cooling system equipment, including steam surface condensers, air-cooled steam condensers, and wet cooling towers. In addition to experience with the referenced equipment, he also is involved in the overall thermal cycle design and optimization for new generation projects across the Southern Company system, as well as major system retrofit projects.

Chris has been involved with the Cooling Technology Institute for close to ten years, serving as past Chairman of the Owner/Operator Council and current Vice-Chair of the Engineering Standards and Maintenance Committee. He has also been involved in other industry groups, serving on the EPRI Condenser Air In-Leakage Task Group as well as on the ASME PTC-23 and PTC-30 test code committees. He holds a B.S. in Mechanical Engineering from Auburn University, a M.A. in English Literature from the University of Alabama at Birmingham, and is a registered Professional Engineer in the state of Alabama.

Chris lives in Birmingham, Alabama with his wife, Dori Lazenby, and their child, a Labrador Retriever puppy named Larabee.

2008 Annual Conference



(l-r) Marcus Allhands, Orival, Inc.; Robert Fulkerson, Fulkerson & Associates; Gary Geiger, GE Water and Process Technologies; Toby Daley, Composite Cooling Solutions, LP



(l-r) Fred Lattin, APTech Group, Inc.; Keith Hirsch, BASF Corporation; Charles (Chuck) Foster, Diagnostic Cooling Solutions, Inc.; Richard (Dick) DesJardins, DesJardins Consulting



(l-r) Paul Nelissen, Howden Buffalo, Inc.; Luc De Backer, Bechtel; Carlos Gallina, Cofimco Srl



(l-r) Panos G. Papavizas, Baltimore Aircoil Company; David Alley, Clearwater Systems; David McLachlan, Fluid Treatment Solutions, Inc.; Rodney Herrington, MIOX Corporation



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



Program Committee (l-r) Jim Baker, Composite Cooling Solutions LP; Glenn Rees (Chair), Cooling Tower Depot, Inc.; Brandon Rees, Cooling Tower Depot, Inc.; Not Pictured - Gary Geiger, GE Water & Process Technologies, Paul Nelissen, Howden Buffalo, Inc. and Mike Daley, Hudson Products Corporation

Speakers and Participants

Education Seminar



Front Roll (l-r) - Julia Taylor, Cooling Components, Inc.; James F. Blake, Jr., American Lightning Protection Systems, Inc.; Helen Cerra, ChemTreat, Inc.; Back Roll (l-r) - Dave Schmidt, SimplexGrinnell-L.P.; David Jennings, LAAP Safety; Bill Howard, Cooling Tower Depot, Inc.



2008 Honorary Life Member



(l-r) Charles E. (Charlie) Shepherd of C.E. Shepherd Co., LP welcomes James L. (Jim) Willa in to the elitist of CTI groups, the Honorary Life Members.

Changing of the Guard



(l-r) Denny Shea (CTI President for 2008 & 2009) thanks Steven Chaloupka CTI's President for 2006 & 2007 for a job well done. Knowing Steven will continue to be involved with the CTI makes parting a little easier.

Outgoing Board Members

This year leaving the Board is (l-r) Tom Bugler, Ken Kozelski and Jim Kanuth. Thank you for your hard work and for your input that has benefitted the Cooling Technology Institute.



CALL FOR PAPERS

2009 Annual Conference
February 8-12, 2009

The Westin, Riverwalk, San Antonio, TX

The following schedule will begin the process for papers presented at the 2009 Annual Conference:

2008

- May 7: Deadline for Abstracts
- June 25: 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

A WORD FROM OUR COMMITTEES

Engineering Standards and Maintenance Committee

Annual Conference – The Westin Galleria, Houston, TX

February 3-7, 2008

Chair: Toby Daley, Composite Cooling Solutions, LLC

Vice Chair: Chris Lazenby, Southern Company Services

Vice Chair: Craig Burriss, Amarillo Gear Company



(l-r) Toby Daley, Composite Cooling Solutions, LLC; Chris Lazenby, Southern Company Services; Craig Burriss, Amarillo Gear Co.

Opening – General Session

Call to Order/Announcements

Meeting was called to order at 3:50 p.m. on February 4, 2008

Approval of Minutes

Jim Baker moved that the minutes from the 2007 Committee Workshop be approved as written. David Theel seconded, and the motion was approved unanimously without discussion.

Documents Awaiting Board Approval

Toby noted that STD 153 was returned to the board for approval after changes arising from board member comments.

Reports from Lead Task Groups

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

Bill noted that ESG 114, 119, and 134 in the document status handout should all be standards (STD). Bill asked for a volunteer to review WTG 142, but Tom Toth believes the document was already reviewed and reaffirmed. Toby will check on the document status.

FRP and Plastics Task Group – Glenn Barefoot

Glenn reviewed the schedule and asked for all interested parties to attend the meeting to write a new guideline concerning FRP-to-Wood Connections which will meet Wednesday from 1:30 to 2:30.

Mechanical Equipment Task Group

Dennis Moran was absent. Craig Burriss stated that CTI 111 task group would have a short meeting and the standard was in final draft. Duane Byerly stated that the Tower Vibration Standard would have two meetings and hoped to make good progress at this meeting.

Tower Operations Task Group – Jess Seawell

Chapter 1, Chapter 4, and Cooling Tower O&M Guideline will meet Wednesday from 3:00 to 4:00 to discuss overlap and scope of each document.

Hazard Protection and Environmental Task Group – Mike Bickerstaff

Meeting schedule was reviewed.

5 Year Document Review

David Theel noted that 2 new documents are past due for review: Chapter 11 and ESG 151. Dennis Moran will be responsible for making assignments for review.

Task Group Meeting Schedules

Meetings will be held as scheduled. Bill Howard asked hold an additional meeting on STD 112 from 4:15 to 4:45 on Monday.

New Business

Jim Baker will check on the ad-hoc status of Chapter 9.

Bill Howard wants a group to meet and discuss seismic design “R-Factors”. Bill will put together a group to meet at the summer workshop.

Toby Daley is rotating off of the committee as Chair after this meeting and Jim Baker will be the next Chair.

Task groups held during the Owner/Operator Seminar will meet, but there will be no voting due to the absence of these members.

Adjournment

With no further business before the committee, the meeting adjourned at 4:30 p.m.



**Did
you
know...**

The CTI Certification Program started in 1962 and currently has 16 OEM manufacturing participants with 38 lines of CTI Certified cooling towers and 6 private brand participants with 6 lines of CTI Certified cooling towers? Several new manufacturers and their new lines of towers are being reviewed and tested. See <http://www.cti.org/certification.shtml> for more information on the current participants and CTI Certified lines.



Performance and Technology Committee Meeting Minutes

Annual Conference – The Westin Galleria, Houston, TX
February 3-7, 2008

Chair: Anthony DePalma, Tower Performance, Inc.
Vice Chairs: Dave Wheeler, CleanAir Engineering
Gene Culver, McHale & Associates, Inc.



(l-r) Anthony DePalma, Tower Performance Inc.; Dave Wheeler, CleanAir Engineering; Gene Culver, McHale & Associates, Inc.

During a kick-off meeting on Monday, February 4, time was spent determining the time required and available for the various tasks to meet. A tentative schedule was developed and due to the hour, the meeting was adjourned. The schedule was printed and made available at the conference desk.

Task chairs were requested to send latest versions of the documents under review or development to the P&T chair and vice-chairs and also to CTI office Attn: Vicki Manser in a winword.doc format.

Wednesday February 6, 2008 – P&T Summary Session

Due to travel schedules and other commitments there was not a closing meeting for the P&T Committee.

The following tasks had meetings during the conference and a summary of their work and task status is provided.

1. ATC-107 – Test Code for Air Cooled Condensers – David Wheeler – Review of ad hoc comments was completed and edits developed. The document will be modified and sent to the task group for a final review and then sent to the Board of Directors for approval.

2. ATC-140 – Isokinetic Drift Test Code – Kenneth Hennon – There were further discussions of background air sampling relating to scrubbing efficiencies and some calculations and graphical data were presented. It was agreed that review of the balance of the code document was a priority and would continue along with discussions on ambient tracer handling. Some code document revisions were presented and will be included and sent to the group for review prior to the summer meeting.
3. ATC-150 – Test Code for Wet-Dry Plume Abated Cooling Towers – Paul Lindahl – The revised document will be sent out to the group for vote in March. The document will be “advertised” on the CTI web site for public notification.
4. STD-201 – Standard for the Certification of Water-Cooling Tower Thermal Performance – Frank Michell – A final draft will be out for review by the group in April and then sent out for ad hoc review.
5. STD-202 – Standard for Publication of Custom Cooling Tower Thermal Performance Test Results – Paul Lindahl – Review of responses were discussed and a revised draft will be sent out for vote in March.
6. Certification Committee – Tom Weast - The Certification program continues to grow.
7. Multi-Agency Testing Committee – Mark Shaw – The committee met in closed session and addressed their agenda.
8. Technology Review – Anthony DePalma – There were 4 documents reviewed and the group voted on their future use or modification. Comments were solicited regarding the subject and types of changes seemed necessary.

Don't forget to reserve your space for the 2009 Table Top Exhibits. There are only thirty-three exhibit spaces available at \$1200/space with ten spaces left (see page 9). For more information contact Virginia Manser at 281.583.4087 or vmanser@cti.org

2008 Committee Workshop Agendas

ENGINEERING, STANDARDS AND MAINTENANCE

Jim Baker - Composite Cooling Solutions, LP, Chair
Toby Daley - Composite Cooling Solutions, Vice-Chair
Chris Lazenby - Southern Company Services, Vice-Chair

- I. Call to Order/Announcements
- II. Introduction of Attendees
- III. Approval of 2008 Annual Conference Meeting Minutes
- IV. Professional Development Hours (PDH)
- V. Documents Approved in 2008
 - STD-103 - Redwood Lumber Specifications
 - ESG-114 - Douglas Fir Lumber Specifications
 - ESG-119 - Timber Connection Specifications
 - ESG-134 - Plywood for Use in Cooling Towers
 - STD-137 - Fiberglass Pultruded Structural Products for Use in Cooling Towers
 - ESG-153 - Recommended Guidelines for Portland Cement Concrete for Mechanical Draft Cooling Towers
 - New Guideline - "Lightning Protection"
- VI. Documents Awaiting Board Approval
- VII. Standing Lead Task Group Reports
 - Wood, Metal, and Concrete Materials Task Group
Chair - Bill Howard, Vice Chairs - Shane Schmidt, Terry Ogburn and Tom Toth
 - FRP and Plastics Task Group
Chair - Glenn Barefoot, Vice Chairs - Jamie Bland and Jim Cuchens
 - Mechanical Equipment Task Group
Chair - Dennis Moran, Vice Chairs - Raul Castillo and Jim Cuchens
 - Tower Operations Task Group
Chair - Jess Seawell, Vice Chairs - Chris Lazenby and Jimmy Green
 - Hazard Protection and Environmental Task Group
Chair - James Blake, Vice Chairs - Denny Shea and Mike Bickerstaff
- VIII. 5 Year Document Review Status - David Theel
Standing Assignments
 - Technical Review Committee (5 Year Reviews) - David Theel
 - The Ask The Expert Designee - Dave Suptic
 - Professional Development Program (PDH) for ES&M - Bill Howard
 - Task Group Meeting Schedules - David Theel
 - Ad Hoc Reviews - Toby Daley
- IX. Task Group Meeting Schedules
- X. New Business
- XI. Adjourn

PERFORMANCE & TECHNOLOGY

Anthony DePalma - Tower Performance, Inc, Chair
David Wheeler - Clean Air Engineering, Vice-Chair
Gene Culver - McHale & Associates, Inc., Vice-Chair

- Technology Document Review – Tony DePalma
- ATC-107 Air Cooled Steam Condenser Test Code – David Wheeler
- ATC-140 Drift Test Code – Ken Hennon
- ATC-150 Acceptance Test Procedures for Wet-Dry Plume Abatement Cooling Towers – Paul Lindahl
- STD-201 Standard for Thermal Performance Certification of Evaporative Heat Rejection Equipment – Frank Michell
- STD-202 Standard for Publication of Custom Cooling Tower Thermal Performance Test Results – Paul Lindahl

WATER TREATING COMMITTEE

John Zibrida - Zibex, Inc., Chair
Matt Wangerin - Ashland Water Technologies, Secretary

- I. Call to Order/Announcements
- II. Introduction of Attendees
- III. Approval of Annual Conference Meeting Minutes
- IV. Task Group Reports
 - A. Environmental Issues – Dean Lammering
 - B. Water Re-Use Document – Phil Kiser
 - C. Cooling Water Performance: Microbiological Monitoring – Walt Tyler
 - D. Filtration of Cooling Water Systems – Clarence Melancon
 - E. Oxidizing Biocide, WTP-141 – Dwight Emerich
 - F. Ozone Reading Lists, WTP-139 & 139.1 – Ken Mortensen
 - G. Task Group for Legionella – Art Brunn
 - H. Cooling Water Performance: Deposit Control Monitoring – Jean Gucciardi
- 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.



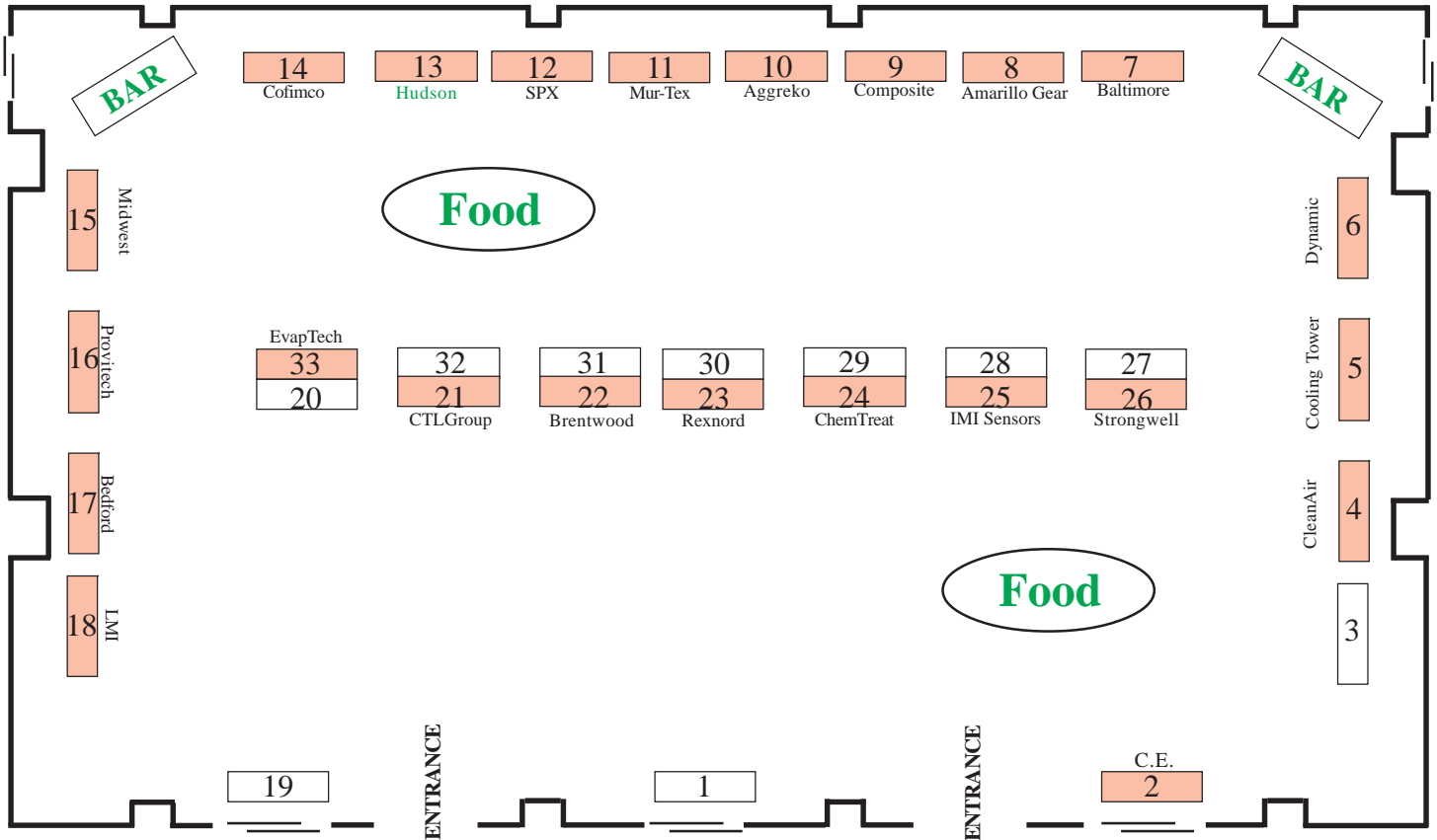


Table Top Exhibits

Tuesday, February 10, 2009

4:00p - 9:00p

Westin, Riverwalk, San Antonio, Texas



Don't forget to reserve your space.

33 exhibit spaces available at \$1200/space.

for more information contact

Virginia Manser at

281.583.4087 or vmanser@cti.org

COMMITTEE WORKSHOP PLANNED ACTIVITIES



CTI Annual Golf Tournament The Tustin Ranch Golf Club (www.tustinranchgolf)

Sunday, July 6, 2008

8:00 am Tee Time

Cost - \$170

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

Monday Evening, July 7, 2008

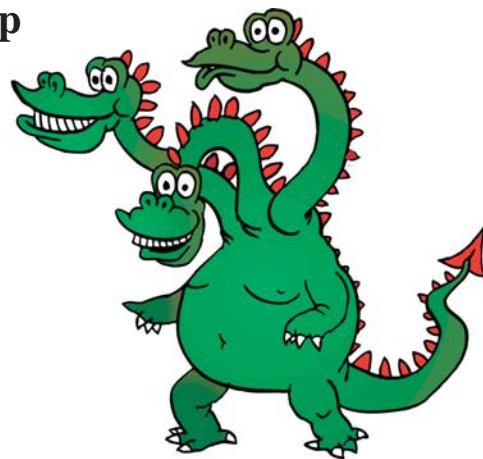
Medieval Times Dinner & Tournament

• Lords & Ladies - \$70 • lil' Jesters (15 & under) - \$30
arriving at 6:00p and staying until 9:30p

or until dragons appear

Bill of Fare:

Garlic Bread
Tomato Bisque Soup
Roasted Chicken
Spare Ribs
Herb-Basted Potato
Pastry of the Castle
Beverage



Registration Form

Committee Workshop July 6,9, 2008 Hyatt Regency, Orange County, Garden Grove, California

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

- Full 3 Day Registration** \$350.00 **\$395 after June 27**
- Golf Tournament** (Handicap _____) Tee Time Begins @ 8:00a \$170/pp Closed June 27
- Spouse Name _____ (Handicap _____) \$170/pp Closed June 27
- Monday Night at **Medieval Times & Tournament** (No. Adults _____) \$ 70/pp Closed June 27
- No. Kids 15 and under (_____) \$ 30/pk Closed June 27

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 30.)

**REFUNDS WILL BE MADE IN FULL FOR CANCELLATIONS MADE PRIOR TO JUNE 27, 2008.
15% CHARGE ON ANY CREDIT CARD REFUND MADE - NO EXCEPTIONS!**

2008 Committee Workshop, July 6-9, 2008

Hyatt Regency, Orange County, Garden Grove, California



The 2008 Committee Workshop will be held at the Hyatt Regency, Orange County, Garden Grove, California, July 6-9, 2008. Plan to arrive early and participate in golf, play at Disneyland (across the street from the hotel) or other theme parks in the area, shop, or visit the coast.

Make your room reservations NOW.

Hyatt Regency Orange County Reservations: 714.740.6018

Guest Room Rates: (Cut off Date: Wednesday, June 11, 2008):

Single/Double Rate: \$159/plus tax • One Bedroom Suite: \$209/plus tax

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

Don't forget to reserve your spot for the
TABLE TOP EXHIBITS
at the 2009 Annual Conference
February 8-12, 2009
The Westin, Riverwalk, San Antonio, Texas
for more information contact
Virginia Manser at 281.583.4087 or
vmanser@cti.org

2008 Board of Directors

President Dennis Shea
 Vice-President Jess Seawell
 Treasurer Randy White
 Secretary Mark Shaw

Director Gary E. Geiger
 Director Bob Giammaruti
 Director Richard Harrison

Director Chris Lazenby
 Director Frank Michell
 Director Ken Mortensen

CTI NEWS
COOLING TECHNOLOGY INSTITUTE
 2611 FM 1960 West, Ste A-101
 Houston, Texas 77068
 (281) 583-4087

PRSR STD
 U.S. Postage
PAID
 Houston, Texas
 Permit No. 8539

Printed in U.S.A

A quarterly publication containing news of CTI
 and its activities.

Terry Ogburn, Editor-in-Chief
Art Brunn - Chairperson
Publications Committee

Virginia A. Manser, Managing Editor

Donna A. Jones, Administrative Assistant

Andrew Manser, Assistant

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

Address Service Requested
Time Value - Deliver by May 16, 2008

