A MESSAGE FROM THE PRESIDENT

AS I WRITE THIS IN MARCH,

It’s college basketball playoffs. We watch a field of 68 teams compete to the final four and then the championship. The message here is about the word, TEAM, because it takes the whole team, including those on and off the court, to win the championship. Likewise, it takes a team to administer and run CTI. If you were at the Annual Conference in New Orleans, you know our CTI administrative team is changing with the announcement that Donna Jones will be retiring at the end of March after 25 years of service. As Vicky said, “Donna has been an excellent employee, assistant, confidant and above all a fantastic friend... it will be a great loss for CTI but even a bigger loss for me.” I think we all feel that same and offer these words to describe Donna - dedicated, intelligent, witty, helpful and effective. Yes, it is a great loss for CTI, but we thank Donna for 25 years of service and recognize her contributions towards the success of CTI. We wish her a happy and fun-filled retirement. At the same time, we welcome Kelli Velasquez to the CTI staff. You may have met Kelli in New Orleans where she didn’t skip a beat in being helpful and contributing to a successful meeting. We look forward to her having a long career with the organization.

Speaking of succession, have you thought about your successor to CTI? Who within your organization will succeed you in contributing to and participating in CTI? Think about bringing an associate from your organization who can participate and enhance the work of CTI. It is not too late. This organization has thrived because of the generosity of member organizations and their staff. It is never too early to lay the foundation for the future.

I want to thank the outgoing Board of Directors for their three-year term of service: Brian Hanel, Hudson Products; Jean-Pierre Libert, EVAPCO; and Frank Michell, AEP. I look forward to working with our incoming board members: Steve Chaloupka, Amarillo Gear Company; Frank Foster, Tower Performance; and Jeffrey Parham, Xcel Energy. As I mentioned, it takes a team that includes the board, our committees, task groups and participating attendees. I encourage all attendees to attend a standing committee meeting and get involved in the activities such as writing or revising documents. We all benefit when exposed to different perspectives and knowledge. The committees have been busy revising ATC-105, STD-201RS, STD-201OM, and STD-202. As well, they have published new documents: ESG-160, Recommended Guidelines for Corrosion Protection of Reinforced Concrete Mechanical and Natural Draft Cooling Towers; WTG-130A, Guideline for Evaluation of Cooling System Corrosion Control; and WTG-130C, Methods for Cooling Water System Microbial Monitoring.

There is much more work to do, so please plan to attend our Committee Workshop at the Peabody Memphis July 7-10, 2019. See the ducks, contribute and participate in the committee work, and have fun! I look forward to seeing you there!

THIS ISSUE:

Annual Conference 2020, 2019 Board of Directors, Committee Updates, Tabletop Exhibits, Future Meeting Dates, News From the CTI Office, and more!
The CTI Board of Directors is comprised of a selection of nine board members elected by the voting delegates of CTI and one President of the Board elected by the Board of Directors from its previous members. Board members represent the main groups of CTI: Manufacturers, Owner/Operators, and Suppliers and serve three year terms with the President of the Board serving a two year term.

Three members of the Board of Directors retire each year and are replaced by three new members allowing for a constant rotation of new members.
Frank Foster
Tower Performance, Inc.

Frank started with Tower Performance, Inc. in 1977 working out of its New Jersey office. In 1980 he became Vice President of Operations in the Houston, Texas office and has been an active member of the CTI community since starting. Over the past 15 years he has been both a CTI board member and an integral member of the Marketing and Membership Committee.

Steve Chaloupka
Amarillo Gear Company

Steve started with Amarillo Gear Company LLC in 1993 where he has been involved in a variety of projects including overseeing the recent opening of Amarillo Gear’s newest manufacturing facility in Changzhou, Jiangsu Province, China. In the past, Steve has been a CTI President, Treasurer, and Chairman of the Finance Committee and has worked with various task groups in Engineering Standards and Maintenance.

Jeffrey Parham
Xcel Energy

Jeffrey began work with Xcel Energy in 2003 after graduating from New Mexico State University with an engineering degree. Over the past 15 years he has served as a plant engineer, a capital project lead, and worked on replacing five cooling towers, cell by cell, and is currently working on a sixth.
MEET THE ANNUAL CONFERENCE
2019 SPEAKERS

Each year dozens of hours of content are prepared and presented at the CTI Annual Conference. Take a closer look at the hard working men and women who prepared, spoke, answered, and presented in New Orleans this past year.

The Program Committee consists of Ray Post and Pete Elliott of ChemTreat, Inc., Miguel Gutierrez of Albemarle Corporation, and Chairman Phil Kiser of PQ Corporation.


Speakers pictured above were Dave Gilbert of EMO3, Inc., Arusi Shukla of Brentwood Industries, Nina Woicke of ENEXIO Water Technologies, and Mark Martich of Cyrco, Inc.


Speakers pictured above were Upendranath Bhupal of Spectrum Consultants, Riccardo Provasi of Axial Fans, Jennifer Hamilton of Evapco, Inc., and Jure Smrekar of JS Energy Limited.

Speakers pictured above were Christophe Vanschepdael Engie Laborele, Eyad Alhariri of Structural Technologies, Eric Kochler of Koehler of Structural Technologies, and Johannes Kotze of TF Design and Ockert Augustyn.

Speakers pictured above were Riccardo Provasi of Axial Fans International, Robert Ferguson of French Creek Software, Inc., and Bee Keong Ng of Innovative Polymers.
THE COMMITTEE CHAIRS

ENGINEERING STANDARDS AND MAINTENANCE
KEN MORTENSEN
SPX COOLING TECHNOLOGIES

WATER TREATING
CHARLES KUHFELDT
CAUSEWAY WATER CONSULTING

PERFORMANCE AND TECHNOLOGY
KENT MARTENS
SPX COOLING TECHNOLOGIES

HAVE A QUESTION?
NEED AN ANSWER?
ASK THE EXPERT!
cti.org
FROM THE COMMITTEES: ENGINEERING STANDARDS AND MAINTENANCE

Chair - Ken Mortensen, SPX Cooling Technologies
Vice Chair - Nina Woicke, Enexio
Vice Chair - Phillip Poll, OBR Cooling Towers
Vice Chair - John Ahern, EvapTech
AdHoc Coordinator - Jon Bickford, Alliant Energy

Committee Report: February 10-13, 2019

Wood, Metal, and Concrete Materials Task Group [Bill Howard]
- ESG-123 Concrete Restoration and Repairs, In AdHoc.
- ESG-153 Recommended Guidelines for Portland Concrete, Narendra Gosain and Tom Kline - AdHoc is complete. To board for approval
- ESG-160 Corrosion of Concrete, Narendra Gosain, Tom Kline - AdHoc is complete. To board for approval.
- ESG-166 Recommended Guidelines for Fire Partitions, Tom Kline, Tom Toth - In work.

Mechanical and Electrical Task Group [Craig Burris]
- Chapter 11 - Electrical Components, James Blake - In work.

FRP and Plastics Task Group [Jamie Bland]
- STD-131 FRP Siding Panels, John Ahern, Brian Fuqua - Approved by board.
- STD-137 Fiberglass Pultruded Structural Products, Ken Mortensen, Bhyrav Mutnuri - Adding FRP testing requirements for CTI certification.
- ESG-152 Structural Design for FRP Components, Tom Toth, Rewriting the moisture/temp/immersion table section.
- ESG-157 Wood to FRP, John Ahern, Ken Mortensen - Approved by board.
- ESG-164 on Thermoplastic Fill, Nina Woicke - The document is in major rework. Document will be made into three parts, Mechanical, Fire, and UV.
- STD-136 Thermoplastic Material for Fill, Chris Bowman, Ken Mortensen - Work began on this document with substantial discussion on the LOI burn testing method discussing what should be included in the document. Review by all parties of the types of plastics and their properties and testing methods will continue. Progress being made.

- STD-170 UV Testing - Fill, Nina Woicke - In work.
- Information, R Seismic Factor, Bill Howard, Tom Toth - Update on the status of the new LRFD code. Anticipated approval by the year end. Looking into test facilities for shake table.

Tower Operations Task Group [Phillip Poll]
- STD-203 - Industrial Cooling Tower, Terry Ogburn, Tom Toth - In AdHoc.
- Chapter 1, Cooling Tower Operations, Richard Hebert, Geoff Eddy - This document is in Ad Hoc for review.
- Chapter 4, Winter Operations, John Ahern - Approved by the board.
- Chapter 13 Inspection of Cooling Towers, Dave Staat, Ethan Chestnut - Group formed with voting members. Sections are being added.

Hazard & Environmental Protection Systems Task Group [James Blake]
- Chapter 8 (ES&M) Environmental Aspects of Cooling System Operation, Helen Cerra, Ken Mortensen - Chapter 7 has been obsoleted by CTI (Water). Chapter 8 will be reviewed for relevance and status determined. In work.
- ESG-121 Safety, Philip Poll - In work.
- Chapter 12, Fire Protection, John Ahern - Approved by the board.
- Field Erection, Tom Toth, Ken Pate - General discussion held. More to follow. In work. Going to add section on inspection checklist.
FROM THE COMMITTEES: WATER TREATING

Chair – Charles Kuhfeldt, CauseWay Water Consulting  
Vice Chair – Dwight Emerich, Solenis LLC 
Secretary – Brian Corbin, Dow Microbial Control

Committee Report: February 11-13, 2019

WTG 126, Application of Non-Oxidizing Biocides, 
Brian Corbin (Chair), Dwight Emerich (Vice Chair). This is a new document. The task group is finalizing the document with a plan to submit it to the Ad Hoc reviewers before the CTI 2019 Summer Meeting.

WTG 130A, Corrosion Monitoring, Matt Wangerin (Chair). This is a new document that is one of three being written to replace the old WTG 130. The document has been completed and reviewed. It is scheduled to be voted on by the Board of Directors on Feb. 14, 2019.

WTG 130B, Deposit Monitoring, Bob Cunningham. This is a new document that is one of three being written to replace the old WTG 130. Document is near completion planned to be finished at the 2019 Committee Workshop.

WTG 130C, Microbiological Monitoring, Pete Elliott (Chair). This is a new document that is one of three being written to replace the old WTG 130. The document has been completed and reviewed. It is scheduled to be voted on by the Board of Directors on Feb. 14, 2019.

WTG 142, Galvanized/White Rust, John Zibrida (Chair), Dwight Emerich (Vice-Chair). This is the five-year review. The document underwent a review at this meeting. Most of the text is still accurate. Minor edits may be made. The bibliography will be updated. Document is planned for finalization during the 2019 CTI Summer Meeting.

WTG 155, Cooling Water Reuse, Jim Kanuth (Chair). We will need a new chairman, Mr. Kanuth is planning to retire. This is the five-year review. The document has been taken through the initial review to approximately 2/3. This will be completed, and a conference call will then identify any additional requirements. The task group committee is changing the document name to Internal Water Recycle. This document considers the reuse and recycle of water that originates within an operating facility.

WTG 161, Best Practices for Cooling Water Treatment, Jack Bland (chair), Charles Kuhfeldt, (Vice Chair). This document was the subject of the Water Treatment Panel Discussion. The document is a new document and while having been worked on for 4 years, it is a complex subject and will require further work.

WTG 168, External Reuse for cooling water make up. We need to identify a new chairman. The previous chairman is not available to work on this document. The Vice-chair is Ray Post. The second vice-chair, Ron Tibbets has retired.

WTG 158, Physical Water Treatment, Mark Winter (Chair). This document went through the Ad Hoc review process and will be sent to the CTI Administration for the Board to vote on. That will happen following later this Spring.

GDL 159, Legionella, Bill Pearson (Chair/Helen Cerra (Past Chair). Significant progress has been made to the document. This was worked during at the meeting. A conference call is also planned. The document is nearly ready to go through the Ad Hoc review process and that is anticipated to occur prior to the Summer 2019 meeting.

Old Business

There was discussion concerning whether to update WTG-141, Application of Oxidizing Biocides. There are a number of new oxidizing biocides, some are blended products. The number of applications of these is increasing. The decision was made by consensus to postpone updating the document until the five-year review period is up (That will be in 2021.) This date is relatively soon, and the Committee has many documents in preparation.

Liaison Reports:

Association of Water Technologies (AWT, Bill Pearson). The 2019 Annual Convention and Exposition will be held September 11-14, 2019, in Palm Springs, California. Conference is growing with 180 exhibitor spots this year.

International Water Conference will be held in Orlando, Florida, November 10-14. Conference was well attended and offers excellent training opportunities.

CTI 2019 Committee Workshop will be held July 7-10, 2019 in Memphis, TN. Panel Discussion: The Panel Discussion reviewed the WTG-161 document and held discussions with input from the floor. Panelists were: Jack Bland, Adam Green, Bill Pearson, Jim Kanuth, Sean Mullin, Pam Simmons, Loraine Huchler, and Charles Kuhfeldt.
FROM THE COMMITTEES: PERFORMANCE AND TECHNOLOGY

Chair – Kent Martens, SPX Cooling Technologies  
Vice Chair – Jared Medlen, Mesa Associates, Inc.  
Vice Chair – Chris Lazenby, Southern Company

Committee Report: February 11-13, 2019

1. General Notes
   A. Eight out of twelve of the active task groups met during this meeting, due to limited time. The following active groups did not meet, but are making progress with teleconferences, and will plan to meet at the Summer Workshop:
      1. STD-146 Water Flow Measurement (Dave Wheeler, Chair); had teleconference to make modifications required by last year’s pitot tube change.
      2. Water Usage and Measurement (J.P. Libert, Chair); Vincent Ganzitti has created an evaporation calculation spreadsheet and video which has been distributed to the task group. A conference call will take place to discuss prior to the summer meeting.
         1. Chapter 2 - Intro to Thermal Design (J.P. Libert, Chair); ongoing review.
         2. Chapter 3 - Performance Variables (Rich Aull, Chair); has had input from others to update, incorporate Tool Kit examples.
   B. Three documents were approved and are ready for board approval as noted below. At the board meeting the decision was made to defer voting to an email vote in the following week to allow board members sufficient time to review the documents.
   C. Held brief discussion on ATC-107 (test code for air cooled condensers) which is well overdue for review. No session was held at this meeting. Virtually all ACC tests are currently performed with ASME 30.1. For the code to be viable, it will need, at a minimum, refreshing; and potentially could “leap frog” the ASME code. This will take a large amount of effort, but has fallen to the bottom of our priority list due to the current load of documents that are more in demand. This could be an opportunity to engage members of the ACC Users Group. Further discussion will be required to recommend future action. Recruiting of OEM’s in the ACC business for Annual Conference 2020 has been recommended, if we are to pursue this document.
   D. Jennifer Hamilton will be leading a new task group to expand on ATC-105DS (dry performance of closed circuit towers) for adiabatic cooling. She will send an email to P&T members soliciting volunteers to assist. Like 105DS, this will move on a fast track to support upcoming ASHRAE efficiency standards expected in 2020.

2. Task Group Meeting Summaries
   A. ATC-105 Thermal Performance Acceptance Test Code (Larry Burdick, Chair)
      1. Ad-hoc review was completed prior to the meeting by teleconference.
      2. A few minor typographical issues were corrected during the meeting.
   B. ATC-105S Test Code for Closed Circuit Coolers (Hussain Yaser, Chair)
      1. Recruited five voting members
      2. Discussed the most significant changes; no votes held
      3. The first draft of the test code has been distributed with the voting members to get their feedback by 03/01.
      4. The goal is to get the test code ready for approval by July 2019 Summer conference.
C. ATC-128 Sound Test Code - Larry Burdick, Chair
1. Voted/approved three sections related to small tower measurement locations.
2. Still need to resolve far field measurement and background correction language.
3. Two teleconferences are planned before the Summer Meeting at which time the final document should be ready for board approval.

D. STD-204 Sound Certification Task Force - Doug Randall, Chair
1. Time was conceded to further efforts to develop ATC-128 which will be necessary before implementing certification.
2. A March teleconference is planned to review draft document and assign next steps.
3. Target date for completion Summer 2020.

E. STD-202 Publication of Custom Tower Performance Test Results - Paul Lindahl, Chair
1. Enexio has joined as the fourth Participating Manufacturer (PM).
2. Voted/approved two additional review steps to accelerate due dates to report test results and allow more time for the appeal process. This will allow results to be published sooner on the website, and increase the probability of having data ready to publish in the CTI Journal.
3. Discussion on considering reportable test exclusions based on special circumstances (e.g., a partial reconstruction project has existing components of unknown performance impact). General consensus is that all guarantees should be clearly stated before testing, and easing of requirements during/after a test should not be allowed. Further discussion is required.

F. PFM-143 Airflow Testing - Sander Venema
1. Added two voting members to replace inactive members.
2. Discussion held on possibility of increasing the scope of this document to include more fan performance data.
3. Discussion on redefining pressure management boundaries as the impact fan performance beyond the fan area to include plenum characteristics.
4. Calls are planned before the Summer Meeting.

G. ATC-140 Isokinetic Drift Measurement Test Code for Water Cooling Tower (Chris Lazenby, Chair)
1. Discussion on conductivity method to analyze drift rates as a secondary (non-preferred) method: some felt too much language is devoted to a method that is not sanctioned by CTI, and for a method that may be controllable in a lab, not in a field test.
2. Vincent Ganzitti reported on preliminary testing using DuNouy Ring versus bubble tensiometer with results being more reliable from the DuNouy ring. Clean Air will be doing further testing with equipment on loan from ChemTreat.

H. STD-201 Certification (Jennifer Hamilton, chair; Frank Michell, Nick Masacarenhas, Co-chairs)
1. 201-RS. Reviewed ad-hoc comments on pitot calibration requirements over a range of Reynolds numbers. Comments were considered editorial. The document has been revised and is ready for board approval.
2. 201-OM. Added clarifications to add pressure drop data. Changes were considered editorial and do not require ad-hoc review. The document has been revised and is ready for board approval.

I. ATC-150 Plume Abatement Test Code - Jared Medlen, Chair
1. Opened at last meeting as needed for 5 year review cycle. Only minor modifications are anticipated based on recent testing experience to correct some minor errors and clarify language. Examples include measures to assure quality of inlet measurements, constancy of test conditions, and reviewing the accuracy table.
2. Jared asked for any additional input to be forwarded to him very soon.
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<td>Additional Luncheon for Spouse/Guest (Tuesday)</td>
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Total

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, 2019) REFUNDS WILL BE MADE IN FULL FOR CANCELLATIONS MADE PRIOR TO JULY 9, 2019. A 15% CHARGE ON ANY CREDIT CARD REFUND MADE - NO EXCEPTIONS!

For Room Reservations and More Information Visit www.cti.org
JOIN US IN JULY AT THE

COMMITTEE WORKSHOP

Join the CTI’s three standing committees (Engineering Standards and Maintenance, Performance and Technology, and Water Treating) for four days of research, discussion, development, and education, and take part in creating the cooling tower industry’s governing codes and standards. Engineers, scientists, salesmen, consultants, and professionals from among the industry’s manufacturers, suppliers, owner/operators, and more gather from around the world to help develop the various standards that keep cooling towers safe, reliable, cost effective, and maintained, offering a unique experience to further the education of veterans and students alike. Join us this summer in Memphis, TN for an opportunity to be a part of the cooling tower industry’s continuing development and education. Visit us at cti.org for more information, or fill in the registration form attached to lend your voice to the committees that have the most effect on you.

JULY 7-10, 2019

The Peabody
MEMPHIS
FROM THE OFFICE

GOOD LUCK, MRS. JONES!
CTI said goodbye to Donna Jones in New Orleans this year, wishing her well in her retirement after twenty-five years of working to maintain the integrity and continued development of the Cooling Technology Institute. But we know retirement won’t slow her down one bit, and we can’t wait to hear of her many successes beyond the doors of CTI. From everyone in the office and members around the world, good luck, great health, even greater fortune, and thanks for everything, Donna! Cheers!

Angie Montes, Helen Cerra, Donna Jones, Virginia Manser, Kelli Vasquez

A LIFETIME OF ACHIEVEMENT
The CTI Honorary Life Membership Award is given to a small but distinguished group of members who have provided a significant period of continuous and extraordinary service to CTI and its member base. This honor is awarded infrequently by the CTI Board of Directors, and we are proud to honor Ed Schinner for his exceptional contributions to the principles of the Cooling Technology Institute. Congratulations!

MOVING FORWARD
Each new class of directors elected to be CTI’s guiding hand brings with it a class of retiring directors no less deserving of recognition than their peers. As always, the Cooling Technology Institute wants to thank its retiring board members for their years of service and dedication. Join us in giving a heartfelt thank you to Jean-Pierre Libert, Frank Michell, and Brian Hanel.
Paul Ronald Puckorius, 88, passed away Friday, March 29, 2019 in Sebring, FL. He was born in Chicago, IL on April 7, 1930 to Paul Joseph and Lucy (Aidulis) Puckorius. Paul was a graduate of the class of 1953 at North Central College in Naperville, IL earning a BA in Chemistry and Mathematics and graduate work at Northwestern University in Chicago and attended numerous business and technical courses.

Paul and his late wife, Joyce, have wintered in Highlands County for many years and became permanent residents in 2016 from Colorado. Paul was a member of St. Francis of Assisi Episcopal Church in Lake Placid. Paul was also member of the National Guard.

Paul was internationally renowned as an expert in water treatment and Legionnaire’s Disease. His career began at Nalco Chemical Company, Zimmite Corporation and finally at Puckorius & Associates, Inc., started in 1976, where he was President and CEO. He had more than 50 years’ experience in cooling water, boiler water and reuse water technology. He had extensive knowledge and expertise relative to Legionnaires’ disease. He has authored over 150 technical papers covering all phases of water problems and practical water treatment. Paul is a member, past president and active on the reuse water committee of the Cooling Technology Institute; member and on the executive committee of the International Water Conference; member and past chairman of several committees including recycle/reuse water at the National Association of Corrosion Engineers; member of AWWA, and the WaterReuse Association.

Paul was married to his beloved wife, Joyce, in Ferndale, MI on February 14, 1953 until her passing on February 26, 2009 and is survived by his twin brother, Ted Puckorius (Lana) of Avon Park, FL and children, Susan Elsberry of Superior, CO; David Puckorius of Westminster, CO; and Cynthia Knight (Andrew) of Parker, CO. He also leaves four grandchildren, Hailey and Katelyn of Colorado; Anna of Texas and Garrett (Deya) of Colorado.

In honor of Paul’s memory and to celebrate his life, a private ceremony took place on Saturday, April 6, 2019.

In lieu of flowers, donations may be made to The Paul Puckorius Scholarship Fund which will be used toward the continuing education of students interested in the water treatment field.
BECOME A MEMBER OF THE COOLING TECHNOLOGY INSTITUTE

CTI is a nonprofit self-governing technical association. It is dedicated to improvement in technology, design, performance and maintenance of evaporative heat transfer systems. In addition, water and air pollution have always been and will continue to be of prime concern to CTI and its members. CTI needs you to continue its energetic growth!

"MEMBERSHIP IS AN AVENUE TO EDUCATION AND DEVELOPMENT"

With multiple tiers and categories of membership, you can find the right fit for you and your company and explore the benefits of joining the Cooling Technology Institute.

Learn about water treatment and theory and get information on emerging technologies and development in waste disposal. Take part in the development of the standards that govern your industry and join one of the many committees that work to exchange information, provide guidance, and disseminate technical expertise to the membership. Interface with manufacturers, suppliers, owner/operators, consultant, and lifelong experts with one goal in mind: a united future for cooling technology.

Membership is available to corporate manufacturers, suppliers, and their affiliates, corporate and individual owner/operators, consultants ranging from engineers to water treatment specialists, and students wanting to know more about the industry and its associated community.

For more information or for an application for membership, visit us online at cti.org.
MULTI-AGENCY TESTING

May 1, 2019 - 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, 2019 to the CTI office via email at the address listed below:

Cooling Technology Institute
vmanser@cti.org
Subject: Multi-Agency Testing

DID YOU KNOW

CTI is on Facebook, LinkedIn, and Twitter? Keeping up with the news from the CTI office is easier than ever, and you can find us on all of your favorite social media platforms keeping you up to date on the news and information relevant to you and your business. Our network of social presences also brings the research, development, discussion, and cooperation of the CTI conferences and workshops direct to your desktop, laptop, or mobile device. Be a part of the world’s largest conglomerate of cooling tower professionals and follow us today!

CALL FOR PAPERS

May 1, 2019 - The Cooling Technology Institute has issued an industry-wide call for papers. That’s right, you can share your research and ideas with thousands of cooling tower industry professionals, executives, engineers, scientists, and more! Papers will be presented at the 2020 Annual Conference from February 9-13 in Houston, TX at the Westin Galleria. If you’re interested in presenting a paper, you can submit an abstract to the CTI office using the following guidelines:

• Due no later than June 28, 2019.
• Should be no greater than 150 words.
• Should identify the paper’s relevance to the industry.
• Be objective and impartial.

A Manual for Authors with detailed instructions will be mailed with your notice of an approved abstract in the first week of August or sooner. Sales pitches will not be accepted. The CTI office and its selected reviewers and committees have the final say on papers and content to be presented.

Visit cti.org to submit an abstract form.

SAVE THE DATE

The CTI Annual Conferences and Committee Workshops are booked several years in advance to help you plan and prepare for your continued education and professional development.

Annual Conference 2020
The Westin Galleria in Houston, TX
February 9-13, 2020

Committee Workshop 2020
The Steamboat Grand in Steamboat Springs, CO
July 12-15, 2020

Annual Conference 2021
The Sheraton New Orleans in New Orleans, LA
February 7-11, 2021
THE CTI EXPO

THE CTI EXPO IS A UNIQUE CONGLOMERATION OF COOLING TOWER

Vendors and exhibitors from across the globe, suppliers, manufacturers, and technology experts from every facet of the cooling tower industry meet in a one night expo featuring hundreds of unique exhibits and demonstrations over the past several years.

Whether you’re looking to exhibit new fan technology, meet vendors to buy gears and software for your cooling towers, or take the pulse of the industry as a whole, the CTI Expo is the place to be every February.

JOIN US IN HOUSTON IN 2020 FOR THE ANNUAL CONFERENCE AT THE WESTIN GALLERIA FEBRUARY 9-13

JOIN US AS WE CELEBRATE 12 YEARS

Of cooling tower exhibitions, and be a part of a quickly growing and powerfully informative expo. Guest passes will be available via the web site soon. Applications for exhibit spaces can be found at cti.org, and a map of the exhibit floor is attached. Don’t miss your opportunity to be a part of the CTI Expo in Houston, TX, February 2020!

VISIT US ONLINE www.cti.org
ABOUT US
This is a bi-annual publication containing news of CTI and its activities. The CTI News has been published continuously since May 1962. Published by the Cooling Technology Institute, established in 1950.
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