WOW….it is amazing how quickly a year goes by! And the bad part is that the years keep going faster and faster the older I get. I have just concluded my first year of a two year term as your President and it seems just like yesterday it was all beginning. I am glad that the President term is now for two years in lieu of the old one year term. It has taken me the first year just to get my feet on the ground, but I’m looking forward to the second year with great anticipation. We have many positive things happening within CTI, all of which will help us grow in technological advancements, broadening our horizons and increasing membership.

I hope you were able to attend the 2007 Annual Conference in Corpus Christi. It was another great meeting that was very well attended. We had 327 attendees which was slightly more than last year’s conference in Houston, with a huge group of first time attendees and new members. Everything seemed to flow very well and I want to thank Vicky Manser and her staff for conducting a wonderful conference. I also want to thank all of the many committee chairs and their support groups for all of their hard work. I heard many positive comments in regards to all of the special programs that were presented throughout the three days.

I want to again emphasize the importance of CTI staying current with today’s rapidly advancing technologies, while at the same time, planning for new technologies we don’t even know exists yet. This will be the key for the continued success of CTI. There are great opportunities with new and revised standards, codes and recommended practices that are in various phases of progress. This requires everyone’s involvement in order to see that these documents are current and we complete these in an expeditious manner. We are looking at ways to better globalize CTI through efforts in expanding the Certification program in Europe and reviewing the need for possible new wood specifications for tree species grown outside of North America. And one of our main focuses is to get more owner/operators actively involved in CTI, which we are making headway due to the efforts of many dedicated members.

In closing, it is truly an honor for me to serve one more year as your CTI President. If you have any comments or suggestions that would better CTI, please let me know. I look forward to seeing you at the Summer Committee Workshop outside of San Antonio this July 8th through 11th. In the meantime, have a great spring and take care.

Steven Chaloupka
CTI President

Did you know...
The CTI Certification Program started in 1962 and currently has 14 OEM manufacturing participants with 34 lines of CTI Certified cooling towers and 5 private brand participants with 5 lines of CTI Certified cooling towers? See [http://www.cti.org/certification.shtml](http://www.cti.org/certification.shtml) for more information on the current participants and CTI Certified lines.
2007 CTI Board of Directors

Serving as President for 2006 and 2007
Steven Chaloupka
Amarillo Gear Company

Manufacturers

2005-2007
Tom Bugler
Evapco

2006-2008
Rich Harrison
Baltimore Aircoil Company

2007-2009
Jess Seawell
Composite Cooling Solutions, L.P.

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Jim Kanuth
ChemTreat, Inc

Bob Giammaruti
Hudson Products Corporation

Randy White
C. E. Shepherd Co., LP

Owner Operators

Ken Kozelski
DuPont

Mark Shaw
Black & Veatch

Frank Michell
American Electric Power
Meet 2007's Newest Board Members...

**Jess Seawell, P.E.** is serving as President of Composite Cooling Solutions L.P. He has 26 years experience in the cooling tower industry in senior engineering, operations, marketing and executive management positions with Ceramic Cooling Tower Co. and Composite Cooling Solutions and holds multiple patents on cooling tower structural and mechanical designs. He has presented numerous papers and related technical publications to the cooling tower and power industries. Considered a technical expert on composite materials and their structural application to cooling towers as well as a leading industry consultant for fire resistant designs as applied to FRP cooling towers. Jess has been a CTI member for 21 years and has served on numerous ES&M Committees as Committee Chairman and Committee Member.

Jess earned a Bachelor of Engineering - Mechanical Engineer from Vanderbilt University in Nashville, Tennessee. He is a Licensed Professional Engineer, Past ASME Section Chairman-East TN Section. His Technical Society Affiliations are with ASME, CTI, NFPA. Currently working with Composite Cooling Solutions L.P. His work experience has been with Ceramic Cooling Tower Corporation, AMF Inc. - Ind. Products Group and Robertshaw Controls Co.

Jess has been married for 48 years to wife, Brenda Seawell who is a Physical Therapist. They have two children and four grandchildren.

**Randy J. White** is responsible for developing and directing the cooling tower efforts for C.E . Shepherd Co., (a world wide supplier of cooling tower components as well as other specialty manufactured items). Mr. White brings over 23 years of experience within the cooling tower industry and has been active with CTI since the late 1980’s. He has spent a good deal of time in the field working directly with the cooling tower owner operators. Past employment experiences as an owner operator (Utility Engineering / Southwestern Public Service Co., Amarillo, Texas, 1983-1994), a manufacturer (Ecodyne Cooling Tower Services and GEA, 1994-2000) and now a supplier give him a unique perspective and understanding of the industry.

Randy earned a Bachelors of Business Administration (BBA) from Texas A&M University at Canyon, Texas and an Applied Arts & Sciences degree in Management from Amarillo College in Amarillo, Texas.

**Frank Michell** is a Principal Engineer in the Applications Engineering and Balance of Plant Mechanical Equipment Group of the Engineering Services Organization of American Electric Power. Frank is a 35-year veteran of AEP and is responsible for providing support and advice to AEP’s fleet of coal and gas fired power plants on Operation, Maintenance, Performance and capital upgrades on Heat Exchangers, Pumps, Cooling Towers and other Balance of Plant systems and equipment. Frank is active in several Industry Organizations including CTI, EPRI and ASME. Frank has been on the CTI Board of Directors and in 2003 served as CTI President. Frank holds a BS Degree in Mechanical Engineering from the Polytechnic Institute of New York.
2007 Annual Conference Speakers

(l-r) Mark Shaw, Black & Veatch; Bernie Wieck, Universal Utilities Services, LLC; Scott Nevins, Evapco, Inc.; Kevin Michols, CTLGroup, Inc.

(l-r) Frank T. Morrison, Baltimore Aircoil Company; Clarence Melancon, Water Filtration Technologies, Inc.; Paul Nelissen, Howden Buffalo, Inc.; John S. Maulbetsch, Maulbetsch Consulting

(l-r) Dennis Kelly, Dober Chemical Corporation; Benjamin Cohen, Baltimore Aircoil, Brandon Rees, Amarillo Gear Company; Gary Geiger, GE Water Process Technology


(l-r) Charles Kuhfeldt; Ashland Industrial; Ken Hennon, CleanAir Engineering; Thomas Weast, Cooling Tower Test Associates, Inc.; Brandon Rees, Amarillo Gear Company; Gary Geiger, GE Water Process Technology
CALL FOR PAPERS

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

The following schedule will begin the process for papers presented at the 2008 Annual Conference:

2007

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
Certification Committee hard at work!

Outgoing Board Members

The saddest part of our Annual Conference is saying good-bye to the outgoing Board Members who have served the CTI members for 3 years.

(l-r) Rich Altice, Terry Ogburn and Denny Shea

Visit CTI's Website
http://www.cti.org
Monday, February 5, 2007

Meeting was called to order at 3:45 p.m. on February 5, 2007. Returning and new attendees were introduced. Report by Bill W Howard of Standards and Guidelines up for Board discussion, approved by or awaiting approval in Ad-Hoc. The 2006 ES&M Workshop meeting minutes were read to all in attendance. Bill W Howard stated that “152” needs to be amended by listing it as a Guideline instead of a Standard as discussed previously. This amendment, as well as all other topics was voted on, and motion was made, seconded and approved unanimously to accept the minutes.

Professional Development Hours (PDH’s) - Announcement was made that requests for PDH’s were to be directed to Vicki Manser during the Conference.

Reports from Lead Task Group Chairs –

Wood Standards Task Group – Bill W Howard
Reported that STD 103, -114, -119 and -134 were complete.
WMS-104 – Wood Maintenance is still to be changed to ESB-104.
WMS-117 – Maximum Life of Cooling Tower Lumber is to be changed to ESB-117.
STD 112 – Pressure Preservative Treatment is still a work-in-progress.

Mechanical Equipment Task Group – Dave Suptic
Denny Moran acted/reported upon behalf of Dave Suptic who was not in attendance.
STD-131 - FRP Siding Panels was discussed, i.e. the omission of stating panel thicknesses. Consensus of attendees was to include along with present nomenclature. Meeting for further discussion is to be held at 10:30 on 02-06-07.

Chapter 11 - Electrical Components (merged with this Group by consensus at Winter 2006 meeting) is a under review as reported by Denny Moran.

STD-137 - Fiberglass Pultruded Structural Products is still a work-in-progress (acknowledged by Jamie Bland, Vice-Chair).

Metal & Concrete Materials Task Group – Tom Toth
Guideline – Recommended Guidelines for Portland Cement Concrete was approved.
FMG-144 - Fastener Material Guidelines is a work-in-progress.
PFM-142 - Treatment of Galvanized Cooling Tower to Prevent White Rust is a work-in-progress.


Mechanical Equipment Task Group – Denny Moran
STD-111 - Gear Speed Reducers – In Work.

(New) Standard - Tower Vibration is still a work-in-progress. Past work by others needs to be accumulated and redistributed. Committee chair possibly needs reassignment. Meeting schedule for 1:00 p.m. on 02-06-07.

(New) Standard - Cooling Tower Fans needs to Chair assignment.
STD-151 - Variable Frequency Drive Application Guidelines for Cooling Towers is under review.

Tower Operations Task Group – Jess Seawell
Chapter 1 - Cooling Tower Operations has been advertised for input, with little response.

Chapter 4 - Cooling Tower Winter Operations has been advertised for input, with little response.

(New) Chapter - Operations & Maintenance is new / work-in-progress.

Chapter 13 - Inspection of Cooling Towers is not up for review until 2010.
STD-203 - Industrial Cooling Tower Standard is not up for review until 2010.

Hazard & Environmental Protection Systems Task Group – James Blake
Guideline – Lightning Protection was reported as pending in Ad-Hoc with possible action by the Board on Thursday, February 8th, 2007.

Chapter 12 – Fire Protection was reported by Mike Bickerstaff as a work-in-progress and needs input from other sources. Chris Spencer opined that the current NFPA-214 is not helpful in determining requirements from a user end, only from a design standpoint and suggested inserting verbiage from FM’s Data Sheet. This issue was tabled for further discussion and review at a meeting scheduled for 1:00 p.m. on 02-06-07.

continued on page 10...
Performance and Technology Committee Meeting Minutes

Annual Conference – Omni Bayfront Hotel, Corpus Christi, TX
February 4-8, 2007

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

The Performance and Technology Committee met on February 5th and in break-out session on February 6th and 7th.
Each committee gave a brief summary of their progress to date.

Technology Document Review – Tony DePalma
There was nothing to report. No documents had been reviewed. Typically documents are reviewed during the Summer Workshop. The committee will obtain from the CTI office the documents which require a five year review.

ATC-107 Air Cooled Steam Condenser Test Code – David Wheeler
Dave announced that this document is now ready for Ad Hoc review. The P&T committee will be trying to find people who can review this document.

ATC-140 Drift Test Code – Ken Hennon
Work is continuing. Assignments, such as nomenclature and example calculations, were given at the Summer Conference and discussed at this meeting.

ATC-150 Acceptance Test Procedures for Wet-Dry Plume Abatement Cooling Towers – Paul Lindahl
Work is continuing and assignments were given.

Work is continuing. Committee passed a motion to accept the revisions to STD-201 through Appendix C.1.1. The committee will continue to seek other methods of flow measurement other than the coriolis meter.

STD-202 Standard for Publication of Custom Cooling Tower Thermal Performance Test Results – Paul Lindahl
Work is continuing and assignments were given.

Golfers get ready! Our Annual CTI Golf Tournament will play on a course designed by noted golf course architect Jay Morrish and PGA Tour professional Tom Weiskopf. The Resort Course at La Cantera opened in 1995 and lured the historic Texas Open, one of the oldest stops on the PGA Tour, to its greens that same year. Winding through the Texas Hill country, the par-72 course has been named one of the Top 10 public access golf courses in the U.S. by Golf Magazine and one of the best new courses by Golf Digest. The course, now home to the PGA Tour's Valero Texas Open at La Cantera is known for its breathtaking views, the most famous being the sheer, 80-foot drop from the 7th tee to the fairway, and offers spectacular views of the roller coaster at Six Flags Fiesta Texas Them Park and the downtown San Antonio skyline. Information enclosed.
Water Treating Committee Meeting Minutes
Annual Conference – Omni Bayfront Hotel, Corpus Christi, TX
February 4-8, 2007

Chair: John Zibrida, ZIBEX, Inc
Vice Chairs: Ken Mortensen, SPX Cooling Technologies
Matt Wangerin, Ashland Water Technologies

I. Call to Order/Announcements
The meeting was called to order. John Zibrida led the opening discussions. Thanks were offered to the many participants and employers for time and effort spent on behalf of CTI.

II. Introduction of Attendees
Returning and new attendees were introduced. A list of 46 attendees at the opening meeting will be forwarded as under separate cover.

III. Approval of Minutes from July 2006 Subcommittee Meeting
Approved.

IV. Task Group Reports
Environmental Issues, Dean Lammering - The goal the Task Group is a revision of the Cooling Tower Manual - Chapter 7. The task is progressing. The task group will meet at the summer meeting 2007.

Water Reuse Document, Phil Kiser - The Task Group document was submitted to the CTI office to be routed to Ad Hoc through Art Brunn, then back to Phil Kiser before submission to the Board. No meeting required this week.

Cooling Water Performance: Microbiological Monitoring, Walt Tyler - The Task Group document has been completed and has been submitted for editing and re-review. Editors will include J. Zibrida, P. Grayson, M. Trulear, A. Brunn. No meeting required this week.

Filtration of Cooling Tower Systems, Clarence Melancon - The Task Group will have a draft document, combining sections from different authors, and will continue to make progress. Meeting time Tuesday, 2/6 at 10:30AM.

Oxidizing Biocide, WTP-141, Dwight Emerich - The Task Group Chairman was absent from the Annual Meeting due to other time commitments. The Chairman will be replaced to enable this Task Group to meet its goals. A section on hydrogen peroxide was submitted by Paul Puckorius. New members have volunteered to participate in this Task Force.

Ozone Reading Lists, WTP-139 & 139.1, Ken Mortensen - This Task Group has submitted document to CTI office and the Ad Hoc Committee.

Task Group for Legionella, Art Brunn - The Task Group continued to fine tune the document this week. Meeting on Tuesday, 2/6 at 11AM. Update of document should be ready for Board approval in July.

Cooling Water Performance: Deposit Control Monitoring, Jean Gucciardi - This Task Group has completed the writing of the draft document. Major editing for consistency was done. These edits should meet approval of entire Task group. The document needs to be distributed to the Water Treatment Committee and the CTI Office. A meeting will be held on Tuesday, 2/6 at 10:30AM.

CTI Document Review, Paul Puckorius - The older list of documents has been checked vs. a current list. The list will be forwarded to John Zibrida. Paul has recommended documents for deletion and revision.

V. Liaison Reports
ASHRAE – No Report
ASM – No Report
AWT – Mike Standish reported the Annual Meeting will be in Colorado Springs in November. Training for “Certified Water Technologist” is gaining recognition.

EPRI – Wayne Micheletti reported copious notes to be submitted under separate cover.

NACE – The Annual Meeting will be in March in Nashville. The Biocide Applications group will be meeting.

IWC – Meeting in Orlando, FL in October, 2007. Abstracts are still being solicited. Joint sessions and research with IWC and CTI are being discussed.

WaterTech – A meeting will be in Philadelphia in April

Water Quality Association / Water Reuse Association – Paul Puckorius is associated with these organizations and they may be of interest to the Water Treatment Subcommittee. WRA to meet in March (CA) and Sept. (FL).

AWPA – Doug Murray will be involved in this wood preservation association.

VI. New Business –
New Task Groups - No new task groups were recommended.

Adjournment
Closing meeting will be on Wednesday, 2/7.
2007 Committee Workshop Agendas

ENGINEERING, STANDARDS AND MAINTENANCE

Toby Daley - Composite Cooling Solutions, LP, Chair
David Theel - Universal Utility Services, LLC, Vice-Chair

Days and (times to be announced):
- Monday, July 9
- Tuesday, July 10
- Wednesday, July 11

Task Groups:
- STD-111, Gear Speed Reducers – Craig Burris
- STD-112, Treatment Standard – Bill Howard/Terry Ogburn
- STD-136, PVC Materials Used for Fill, Splash Fill, Louvers – Mike Whittemore
- Chapter 1, Cooling Tower Applications – Jess Seawell
- Chapter 4, Cooling Tower Winter Operations – Jess Seawell
- Chapter 8, Environmental Aspects of Cooling System Operation – Denny Shea
- Chapter 10, Mechanical Components of Cooling Towers – Dave Sayker
- Chapter 12, Fire Protection – Mike Bickerstaff
- Cooling Tower Safety Guideline – Julia Taylor
- FRP Fan Stack Material Standard – Tom Toth
- FRP Fan Stack Design Guideline – Tom Toth
- Tower Vibration Standard – Tom Ritter
- Cooling Tower O&M – Jess Seawell
- International Woods – Bill Howard

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-202 Standard for Publication of Custom Cooling Tower Thermal Performance Test Results – Paul Lindahl

WATER TREATING COMMITTEE

John Zibrida - Zibex, Inc., Chair
Ken Mortensen - SPX Cooling Technologies, Vice Chair
Matt Wangerin - Ashland Water Technologies, Secretary

I. Call to Order/Announcements
II. Introduction of Attendees
III. Approval of Annual Winter 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.

A Word From Our Committees

Engineering, Standards and Maintenance, con't

Chapter 8 – Environmental Aspects of Cooling System Operation as reported by Denny Shea has already partially been written by the Water side of CTI. However, ES&M needs to handle drafting verbiage regarding air issues. He will coordinate with Water to set up a Joint Task Group and request input from other sources within ES&M regarding air.

(New) Guideline – Cooling Tower Safety is a work-in-progress. Mike Daley and Denny Moran will meet 02-05-07 @ 10:30 a.m. to review current status of work by Julia Taylor (not in attendance) as well as past participants.

New Business –
Discussion was had regarding re-assigning Ad-Hoc Review within ES&M. Meeting to be held at 8:00 a.m. 02-06-07. With no further business before the Committee, the meeting was adjourned at 4:40 p.m.
CTI 2007 Committee Workshop
Program at a Glance

Saturday, July 7
5:00p - 12:00a: CTI Hospitality Suite, (Bar closes at 8:00 pm)
5:00p - 8:00p: Registration

Sunday, July 8
7:27a - till done: Golf Tournament (must have transportation)
5:00p - 8:00p: Registration
5:00p - 12:00a: CTI Hospitality Suite (Bar closes at 8:00 pm)

Monday, July 9
7:00a - 8:00a: Registration
8:00a - 8:45a: Continental Breakfast, Sports Awards; Spouses Invited
8:45a - 9:00a: General Session/Announcements/Business Meeting
9:00a - 4:00p: Registration
9:00a - 5:00p: Engineering Standards & Maintenance (Main Meeting & Task Group)
Performance & Technology (Main Meeting & Task Group)
Water Treating (Main Meeting & Task Group)
10:00a - 5:00p: Certification
10:00a - 10:30a: Coffee Break
Noon - 1:00p: Luncheon for Registrants - Guest/spouses must pay $25 at registration desk prior to 10 a.m.
5:00p - 12:00a: CTI Hospitality Suite (Bar closes at 8:00 pm)
6:00p - 9:30p: Dinner at the Enchanted Springs Ranch (must have transportation)

Tuesday, July 10
8:00a - 4:00p: Registration
8:00a - 10:30a: Continental Breakfast
8:00a - 5:00p: Committee Groups: Same room assignments from Monday
10:00a - 5:00p: Certification
Noon - 1:00p: Luncheon for Registrants - Guest/spouses must pay $25 at registration desk prior to 10 a.m.
5:00p - 12:00a: CTI Hospitality Suite (Bar closes at 8:00 pm)

Wednesday, July 11
8:00a - Noon: Registration
8:00a - 10:30a: Continental Breakfast
8:00a - 5:00p: Committee Groups: Same room assignments from Monday
Noon - 1:00p: Board Luncheon
1:15p - 5:00p: Board Meeting
5:00p - 12:00a: CTI Hospitality Suite (Bar closes at 7:30 pm)
2007 Annual Conference
Table Top Exhibits

Making one's way around the some 36 exhibitors representing both manufacturers and suppliers of cooling towers was as fun as finding your way into the center of the group to visit with new attendees, the forever CTI members and a delightful spread of hors d'oeuvres. Make your plans to present your products at the 2008 Annual Conference's room of exhibitors. Information can be found on the following page or call the CTI office.

Got a Cooling Tower Question?

www.cti.org
Table Top Exhibits

Tuesday, February 5, 2008
4:00p - 9:00p
Westin Galleria, Houston, Texas

Don’t forget to reserve your space.
48 exhibit spaces available at $1200/space.

for more information contact
Virginia Manser at 281.583.4087 or vmanser@cti.org
CTI Annual Golf Tournament
The Resort Course at La Cantera
(www.LaCanteraGolfClub.com)

Sunday, July 8, 2007
7:27 am Tee Time
Cost - $165

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

Monday Evening, July 9, 2007
a Night at the Enchanted Springs Ranch

• Dudes & Dudettes - $70 • lil' Doggies (15 & under) - $30
arriving at 6:00p and staying until 9:30p or until you're shot

You'll enjoy drinks from the Six Gun Saloon (Free Bar), touring through an Old West Town, taking tractor rides and mingling with gunslingers and saloon girls!!! After dinner guest not only will be entertained by Pistol Packin' Paula who performs her world famous gun twirling and trick rope show but may continue to ride the tractors, touring the town or listen to music.

The chuck wagon crew will serve up:
• Brisket, Chicken and/or Sausage
• Pinto Beans, Cole Slaw and/or Potato Salad
• Bread, Pickles, Onions, and Jalapenos
• Brownies

- FREE BAR throughout the evening -
The 2007 Committee Workshop will be held at the Westin La Cantera Resort, San Antonio Texas, July 7-12, 2007. Plan to arrive early and participate in golf, play at two different theme parks; Fiesta Texas or Sea World, visit the Alamo or the Riverwalk in downtown San Antonio - so much to do so little time.

Make your room reservations NOW.

The Westin La Cantera Reservations: 210.558.6500

Guest Room Rates: (Cut off Date: Friday, June 15, 2007):

- Single Rate: $159.00/plus tax
- Double Rate: $169.00/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 2008 Annual Conference

February 3-7, 2008

The Westin Galleria, Houston, Texas

for more information contact

Virginia Manser at 281.583.4087 or

vmanser@cti.org

2007 Board of Directors

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CTI NEWS

COOLING TECHNOLOGY INSTITUTE

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A quarterly publication containing news of CTI
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Terry Ogburn, Editor-in-Chief
Art Brunn - Chairperson
Publications Committee

Virginia A. Manser, Managing Editor
Donna A. Jones, Administrative Assistant
Andrew Manser, Assistant

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