

COOLING TECHNOLOGY INSTITUTE

Bibliography of Technical Papers

Categorized for Technical Content
(May be subject to multiple interest)



Revised March 2005

COOLING TOWER INSTITUTE

Bibliography of Technical Papers

The following papers have been presented at conferences of the Cooling Tower Institute and are listed by categories. Efforts are being made to simplify our filing system. The new order number is in the first column with the old order number in parenthesis after the title. This will help in cross referencing numbers. Reproduced copies of these papers are available from the CTI office, PO Box 73383, Houston, TX 77273. Please order by the new order number. Papers are priced at \$10.00 each, plus postage/handling. Prepayment is requested on all orders \$25 or less.

ANALYSIS METHOD

ORDER #	TITLE	AUTHOR	DATE
TP81-14	A New Simplified Method for Field Analysis of Phosphonates in Water (TP-240A)	R.S. Mitchell & S.H. Nadeau, Monsanto Co.	1981

CLEANING SYSTEMS

TP64-04	Chemical Cleaning of the Water Side of Process Equipment (TP-15A)	W.E. Zimmie, W.E. Zimmie, Inc.	1964
TP96-02	Online Cooling Tower Cleaning	Mark Coyle, Gordon Barksdale, American Inland Divers, Inc.	1996
TP98-13	New Technology Improves Tower Basin Cleaning	Randy Delenikos, Bill Leizear, LAKOS Filtration System	1998
TP99-15	Online Cooling Tower Cleaning and Water Division	Cliff Roy & John Foy, Syncrude Canada LTD; Lloyd Olson, International Cooling Towers	1999

CONVERSION

TP97-02	Com Ed Co. Byron Generating Station Unit 1 Crossflow to Counterflow Conversion	James O. Smith Com Ed Co., Mark Muder, Marley Cooling Tower	1997
TP99-14	Conversion of a Crossflow Tower to a Double-Level, Multi Fan Counter Flow Tower	Vincent Wiltz, Cooling Tower Specialists	1999

COOLING TOWER WATER BLOWDOWN TREATMENT

TP60-01	Amberlite IRC-84 in Treatment of Water for Cooling Towers (TP-21B)	D.G. Downing, J. Printz & D.L. Owens, Rohm and Haas Co.	1960
TP73-13	Fluidized Moving Bed Ion Exchange for Treatment of Cooling Towers Blowdown (TP-111A)	J. Newman, Liquitech, Inc.	1973
TP75-10	Operating Experience with the Electro-Chemical Chromate Removal Unit (TP-139A)	Joseph G. Duffey & Stephen B. Gale, Andco, Inc., Stanley Bruckenstein, State Univ. of New York at Buffalo	1975
TP76-13	Electrochemical Destruction of Chromate and Zinc From Cooling Tower Water (TP-156A)	C.R. Schmitt & J.R. DeMonbrum, Union Carbide Corp.	1976
TP77-14	Hexavalent Chromium Reduction in Cooling Tower Blowdown-Evaluation of the Electrolytic Process (TP-167A)	A.J. Reitano, Jr. & R.R. Lessard, Exxon Research & Eng. Co.	1977
TP77-19	The Reduction of Chromate by Amine Phosphonates at a Low pH (TP-172A)	S.B. Twitchell & R.J. Lipinski, The Mogul Corporation	1977
TP78-12	Chromate Handling Systems for Cooling Tower Blowdown (TP-192A)	Fred Roensch, Anita Feltes & A.W. Oberhofer, Nalco Chemical Co.	1978
TP84-19	An Innovation in Chromate Removal	Stephen B. Gale Ph.D. & Philip P. O'Donnelle, Niagara Environmental Associates	1984
TP01-10	Hero Process - Recovery Reuse of Cooling Tower Blowdown and as a Preconcentrator for ZLD Application	Charles H. Fritz, FE Backlund, Veatch Corp., V.J. Nathan, Aquatech Int'l Corp.	2001

ORDER #	TITLE	AUTHOR	DATE
COOLING TOWER WATER CHEMISTRY			
TP76-11	Amorphous Silica Scale in Cooling Waters (TP-148A)	William S. Midkiff, Ph.D. & H. Pressley Foyt, Los Alamos Scientific Laboratory	1976
TP77-15	Copper Ion Pickup in Recirculation Cooling Tower Systems (TP-177A)	Stephen F. Hager & James M. Popplewell	1977
TP77-17	Silica Species as Stabilizers of Stagnant Water Films (TP-170A)	Roy V. Comezux, Exxon Research & Engineering Co.	1977
TP79-16	Reduction of Sulfate Concentration in Circulating Water (TP-198A)	Karel Zadera RMC, Corp., Raymond E. Kerollis, Kerrollis Associates	1979
TP80-12	Bibliography on the Use of High Dissolved Solids Waters in Cooling Towers (TP-215B)	Cooling Tower Institute's Task Group on the use of High Dissolved Solids Waters in Cooling Towers	1980
TP82-12	Sewage Effluent Make-Up to Cooling Towers with Film Fill (TP-252A)	Kenneth Lindemann, Southern Public Service Company	1982
TP83-15	Log Diagram Predicts Chemical Performance on Calcium Carbonate (TP-272A)	William S. Midkiff, Ph.D P.E., Industrial Water Engineering, Inc.	1983
TP84-12	Minimizing Calcium Phosphate Fouling and Associated Pitting Rates	Paul Labine, J. Minalga, D. King & W. Norman, Petrolite Corp.	1984
TP86-06	The Importance of Crystal Structure to the Water Treatment Industry	Gary Caplan, Bird Archer, Inc.	1986
TP90-09	Hypohalous Acid and Haloamine Flashoff in Industrial Evaporative Cooling Systems	William F. McCoy, Great Lakes Chemical Corporation	1990
TP95-16	Traced Biocides: A New Technology for Industrial Water Treatment	William F. McCoy, Scott A. Borchardt, Mark R. Hermiller, Nalco Chemical Company	1995
TP96-06	Methods for Chlorine Control in Critical Cooling Towers	Stephen A. Wortendyke, Capital Controls Co., Inc.	1996

COOLING TOWER WATER TREATMENT PROGRAMS			
TP68-16	New, Non-Chromate Synthetic-Organic Corrosion Inhibitor for Cooling Water Systems (TP-58A)	C.M. Hwa, Dearborn Chemical Division	1968
TP72-08	New Advances in Organic Cooling Water Programs (TP-100A)	Ernest Q. Petrey, Drew Chemical Corporation	1972
TP73-11	Effective Phosphate/Phosphonate Treatments Replace Chromate-Based Programs (TP-117A)	William L. Harpel & John M. Donohue, Betz Laboratories, Inc.	1973
TP81-15	A Breakdown in Cooling Tower Water Technology Dianodic II (TP-229A)	R.H. Gailey, R.C. May & G.W. Delaney, Betz Laboratories, Inc.	1981
TP84-14	A Cooling Tower Pilot Plant for Evaluating Non-Chromate Water x Treatment Programs	Carol A. Jones, Dow Chemical Corporation	1984
TP85-03	Cooling Water Treatment Transition Zinc-Chromate to All Organic	James G. Kanuth, Dupont Co. & Kent Binks, Drew Chemical Corp.	1985
TP85-12	New Approaches to Monitoring The Performance And Control of Cooling Water Programs	D.C. Helton, D.A. Johnson & G.W. Hanks, Nalco Chemical Co.	1985
TP86-13	Diol Technology: A Unique Non-Heavy Metal Treatment Approach	Byrnes Kuehnle, Wright Chemical Company & Mike King, Ciba-Geigy Corporation	1986
TP86-19	A Chrome/Zinc-Based Cooling Water Treatment for Systems Operating Under Reducing Conditions	Michael G. Fitzpatrick & Ronny C. Jackson, ChemTreat, Inc.	1986
TP87-05	Alkaline All-Organic Cooling Water Treatment (Field & Laboratory Development)	D.A. Little, J.E. Waller & Chris Soule, Dearborn Division	1987
TP87-07	A Novel Polymeric Material For Use in Minimizing Calcium Phosphate Fouling in Industrial Cooling Water Systems	Robert W. Zuhl, Zahid Amjad & William F. Masler, III, The BF Goodrich Company	1987
TP87-10	A Molybdate Update Effective, Economical Programs	Philip R. Engelhardt, Keith M. Johnson & Barry A. Metz, Wright Chemical Corporation	1987

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TP89-06	Polymer/HED Blends for Calcium Carbonate Deposit Control	Alan Yeoman & Patrick Sullivan, Ciba-Geigy Corporation	1989
TP89-10	Performance of Molybdates as an Alternative to Chromates	Charles W. Smith, Ph.D., Mitco Water Laboratories, Inc.	1989
TP91-09	Laboratory Development of Novel Multifunctional Polymers for Cooling Water Use	Ingrid Brase & Joseph Pasapane, National Starch and Chemical Co., & James H. Belcher, Alco Chemical Company	1991
TP92-12	Alkaline Phosphate - A New Direction for Phosphate Cooling Water Treatment	Christine M. Stuart & Phil Eastin, Nalco Chemical Company	1992
TP94-03	Development of High Cycle Cooling Water Treatment Program	Binu S. Khambatta, Daniel A. Meier & Michael A. Kamrath, Nalco Chemical Company	1994
TP94-04	Monitoring Biological Control in Cooling Systems	Gary G. Engstrom & Jack C. Tully, Grace Dearborn	1994
TP94-11	A Mechanistic Study of Corrosion Inhibition by Phosphonates	B.J. Hepburn & P.J. Sullivan, FMC Corporation	1994
TP95-08	Maximizing Cooling Tower Cycles of Concentration	Robert J. Cunningham, Chemisis Inc.	1995
TP98-02	Making the Best Choices in Water Treatment Additives	Roy Manley, BetzDearborn, Inc.	1998
TP99-01	Halogen Stable Alkaline Cooling Program	Dave Ritz & Gary Geiger, BetzDearborn Inc.	1999
TP99-03	Actives Based Monitoring and Control for Improved Cooling System Management and Performance	Michael G. Trulear & John Richardson, ChemTreat, Inc.	1999
TP99-07	Tweaking-The Art and Science of Successful Cooling Water Treatment	M.A. "Andy" Ward, Thomas M. Laronge, Thomas M. Laronge, Inc.	1999
TP00-03	A Non-Chemical Water Treatment Device	John Lane, Clearwater Systems; Gerald Kutner, Engelhard	2000
TP03-10	Real-Time Biological Monitoring	Ken Davenport, Biotrace, Inc.	2003
TP03-19	Experience With On-Line Monitoring of Biofilms in Plant Applications	George Licina, Structural Integrity Associates	2003
TP04-10	A Novel Polymer for Effective Cooling Water Scale Control in Stressed	Abdalmohsen D. Alamajouni, Saudi Aramco & Arif E. Jaffer, Baker Petrolite	2004
TP05-19	Effective, Chemical-Free Microbiological Control for Industrial Cooling Water Systems	Joanne Kuchinski, Linda Rusznak & Edward Beardwood, Ashland Specialty Chemical	2005

CORROSION

TP61-01	Corrosion Resistant Materials for Cooling Tower Hardware (TPR-126)	Wesley W. Smith	1961
TP64-02	The Corrosion Engineer Looks at the Cooling Tower (TP-13A)	David W. McDowell, Jr., Southwest Research Institute	1964
TP68-01	A Report on Cathodic Protection of Underground Piping Systems at the Paducah Gaseous Diffusion Plant (TP-57A)	L.C. Burkhalter, M.F. Shelton & E.H. Tomlinson, Union Carbide Corporation Nuclear Division	1968
TP69-01	Protection of Iron and Steel Through Hot Dip Galvanizing (TP-69A)	K.S. Frazier, American Hot Dip Galvanizers Association	1969
TP72-01	Fundamentals of Corrosion in Cooling Water Systems (TP-102A)	William R. Hollingshad, Calgon Corporation	1972
TP77-01	The Evaluation of Nonchromium Low Zinc Cooling Water Corrosion Control Additive (TP-171A)	Richard E. Badger, Shell Oil Company	1977
TP77-02	Proper Start Up of Cooling Towers Systems - Prevent Initial Corrosion and Fouling (TP-162A)	Paul R. Puckorius, Puckorius and Associates, Inc.	1977
TP78-01	On Stream Evaluation of General and Pitting Corrosion Rates in Cooling Using Potentiodynamic Techniques (TP-190A)	A.E. Woodson, Petrolite Corp., Tretolite Division	1978
TP79-01	Numerical Evaluation of Corrosion Inhibitor Effectiveness and Supplier's Technical Services (TP-211A)	William W. Wheeler, Rohm and Haas Texas, Inc.	1979
TP83-01	Development of Procedures for Pretreating Mild Steel Cooling Water Exchangers (TP-270A)	Raymond J. Pasteris, Mobil Research & Development Corp.	1983

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TP83-02	Cooling Tower Hardware Corrosion Studies (TP-263A)	Steven C. Blue, Union Carbide Corporation	1983
TP86-04	Experience With Galvanized Cooling on Alkaline Treatment Programs	John C. Smedley, Olin Water Services	1986
TP86-16	A Petroleum Based System for Control of External Corrosion In, On and Around Cooling Towers	Michael A. Berry & Carroll N. Steely, Denso, Inc., & James F. Axsom, P.E., Consultant	1986
TP87-14	Corrosive Water - A Brazilian Reality	Jose Otavio Silva, Messias Candido Amaral & Flavio Bianchi, Aquatec Quimica, S.A.	1987
TP89-01	Reducing Copper Corrosion and Discharge Via a Novel Inhibitor and Applications Program	Orin Hollander & Charles Shelton, Betz Industrial, & Ronald Griffin, City of Tallahassee Electric Dept.	1989
TP89-11	Investigation of Alternative Inhibitor Programs for Highly Corrosive Alkaline Waters	Greg Simpson & Richard Murtagh, Burmah Technical Services, Inc.	1989
TP90-08	An Alternative Oxidizer, Bromine Offers a Northeast Chemical Plant Improved Corrosion and Fouling Control	Mark J. Giusto, Drew Industrial Division	1990
TP91-13	Cooling Water Corrosion Problems in the Utility Industry: MIC Case Histories	Paul R. Puckorius & Robert T. Hess, Puckorius and Associates, Inc.	1991
TP91-14	Update on White Rust Corrosion and Control	Keith M. Johnson & Joseph B. Mihelic, Drew Industrial Division	1991
TP94-10	Pitting Corrosion of Cooling Water Systems	Mark A. Lisin, P.E. & Thomas M. Laronge, Thomas M. Laronge, Inc.	1994
TP94-13	The Control of Ferrous Metal Corrosion in Cooling Water by a Novel Phosphonate Corrosion Inhibitor	David A. Little, Wayne A. Mitchell & E.S. Lawson, Grace Dearborn	1994
TP96-10	Cathodic Protection of the Palo Verde Cooling Towers	William R. Schutt, Matcor, Inc.	1996
TP96-12	Analyzing Corrosion Rates of Copper for Open Recirculating Systems	Gary Caplan, Diversey Water Technologies Ltd.	1996
TP96-14	Corrosion Inhibition of Ferrous Metal in Soft Water Under Cooling Water Conditions	Colin Hogan, FMC Process Additives Division	1996
TP97-14	Elucidation of Components of Aromatic Triazole Demand in Cooling Water Systems and Development of More Environmentally Friendly Yellow Metal Corrosion Inhibitor	Narasimha M. Rao, Donald A. Johnson, Frank F. Lu, Nalco Chemical Company; N.P. Nghiem, Oakridge Nat'l Laboratory	1997
TP02-15	Corrosion and Biofouling Control in a Refinery Cooling Water System Using Sewage Water as a Make Up	Abdulmohsen Almajnoui, Saudi Arabian Oil Company; Arif Jaffer Baker Petrolite	2002

DEPOSIT CONTROL

TP76-10	Evaluation of Novel Polyacrylate Type Anti-Scalant Using a Dynamic Scale Test Apparatus (TP-149A)	R.M. Goodman & A.M. Schiller, American Cyanamid	1976
TP87-07	A Novel Polymeric Material For Use in Minimizing Calcium Phosphate Fouling in Industrial Cooling Water Systems	Robert W. Zuhl, Zahid Amjad & William F. Masler, III, The BF Goodrich Company	1987
TP88-08	Polymer Blending for Dispersion and Deposit Control	G.D. Hansen, Consultant	1988

DRIFT

TP69-02	A Review of CTI Work on the Measurement of Cooling Tower Drift Loss (TP-68A)	John C. Campbell	1969
TP70-01	Control of Cooling Tower Mist (TP-87A)	R.H. Maurer, Celanese Chemical Company	1970
TP73-01	Cooling Tower Drift Its Measurement, Control and Environmental Effects (TP-107A)	G.K. Wistrom & J.C. Ovard, Ecodyne Cooling Products Co.	1973

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TP73-02	Atmospheric Effects of Water Cooling Facilities (TP-107B)	Eric Aynsley, Particle Data Laboratories, Ltd. & James E. Carson, Argonne National Laboratory	1973
TP73-03	Analytical Determination of Cooling Tower Drift Eliminators Efficiencies (TP-108A)	R.E. Grimble, Westinghouse Research & Development Labs, & A. Roffman, Westinghouse Environmental Systems Dept.	1973
TP73-04	Predictions of Drift Deposition From Salt Water Cooling Towers (TP-109A)	A. Roffman, Westinghouse Environmental Systems Dept., R.E. Grimble, Westinghouse Research & Development Labs	1973
TP73-05	Cooling Tower Plumes - Defined and Traced by Means of Computer Simulation Models (TP-115A)	W.G. England, L.H. Teuscher & J.R. Taft, Systems, Science & Software	1973
TP74-01	The Generation of Visible Plumes by Wet/Dry Cooling Towers (TP-123A)	Robert J. Biese, Ms.M.D.,P.E., Gilbert Associates, Inc.	1974
TP74-02	On the Question of Airborne Transmission of Pathogenic Organisms in Cooling Tower Drift (TP-124A)	B.G. Lewis, Argonne National Laboratory	1974
TP77-03	Drift - Modeling and Monitoring Comparisons (TP-175A)	Norbert C.J. Chen, Oak Ridge National Lab., Steven R. Hanna, Air Resources Laboratory	1977
TP79-02	Cooling Tower Drift Studies at the Paducah, Kentucky Gaseous Diffusion Plant (TP-213A)	Fred G. Taylor & Patricia D. Parr, Oak Ridge National Lab., Steven R. Hanna, AirResources Lab	1979
TP81-01	Cooling Tower Drift Study - Drift Measurement and Analysis of the Measuring Technique (TP-232A)	Shin H. Park, Union Carbide	1981
TP85-06	Comparison of Methods For Measurement of Cooling Tower Drift	M.W. Golay, W.J. Glantschnig & F.T. Best, Dept. of Nuclear Engr., Massachusetts Institute of Technology	1985
TP86-01	Comprehensive Drift Measurements on a Circular Mechanical Draft Cooling Tower	Karl Wilber, Environmental Systems Corp., & Ken Vercauteren, Arizona Public Serv.	1986
TP87-08	An Economical Solution to Cooling Tower Drift	George C. Pedersen, P.E., Kimre, Inc., V. Keith Lamkin, P.E., Engineered Processes, Inc., & Mike Seich, Dow Chemical Co.	1987
TP90-12	Comparison of Two Isokinetic Drift Measurement Methods	Paul Lindahl & O.L. Kinney, The Marley Cooling Tower Co.	1990
TP92-10	Reduction of Cooling Tower PM ₁₀ Emissions Due to Drift Eliminator Modifications at a Chemical Refining Plant	Thomas E. Weast, P.E. & Nicholas M. Stich, Midwest Research Institute, & Gordon Israelson, P.E., Westinghouse Electric Corporation	1992
TP93-01	Plume Abatement and Water Conservation With The Wet/Dry Cooling Tower	Paul A. Lindahl, & Randall W. Jameson, The Marley Cooling Tower Company	1993
TP93-07	Simultaneous Comparison of the CTI HBIK and the EPA Method 13A Isokinetic Drift Test Procedures	Michael R. Whittemore, Brentwood Industries, Inc., & Thomas E. Weast, Midwest Research Institute	1993
TP94-01	Drift Testing - Scale Up From Test Cell To Field Acceptance Test	David Brill, Black & Veatch Joe H. Lander, Florida Power Corp.	1994
TP94-16	Drift Eliminators and Fan System Performance	Dr. Bryan R. Becker, P.E., Assoc. Professor of Mechanical Engr., Univ. of Missouri, Larry F. Burdick, P.E. Project Engineer, The Marley Cooling Tower Co.	1994
TP96-05	Prediction of the Plume From a Cooling Tower	Kazutaka Takata, Kishida Nat'l. Ind. Co., Ltd. Hiroyuki Yoshikawa, Shinko Pantec Co., Ltd.	1996

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TP98-08	Cooling Tower Plume Abatement at Chicago's O'Hare Airport	J.D. (Doug) Randall, P.E., Marley Cooling Tower, Michael C. Long, P.E., Black & Veatch, Romesh K. Kansal, P.E., Dept of Aviation, City of Chicago	1998
TP98-16	The Relationship Between SP and HGBIK Drift Measurement Results - New Data Creates a Need for a Second Look	Jack R. Missimer, Ph.D., P.E. David E. Wheeler, P.E., Kenneth W. Hennon, Power Generation Technologies	1998
TP99-13	A Non-Metallic Air Cooled Heat Exchanger for Cooling Tower Plume Reduction	David M. Suptic, The Marley Cooling Tower Company	1999
TP03-08	Cooling Tower Emissions Quantification Using The Cooling Technology Institute Test code ATC-140	Ken Hennon & David Wheeler, Power Generation Technologies	2003
TP05-12	An Economical Solution to Cooling Tower Drift	G.C. Pederson, Frank Power & Arthur Braren, KIMRE, Inc	2005

DRIVESHAFTS

TP72-02	Flexible Coupling Driveshaft Systems For Cooling Towers (TP-98A)	Fred K. Landon, Koppers Company, Inc.	1972
TP85-20	Thermal Expansion Problems With Long Single Piece Fan Drive Shafts	C.W. Hendrickson, Rexnord Mechanical Power Division, D.A. Fairbanks & G.R. Kleman, Southwestern Public Service	1985
TP88-06	Composite Driveshafts in Cooling Towers	Dr. K.R. Berg, ASEA Composites, Inc.	1988
TP89-08	Design and Application of Composite Cooling Tower Couplings	Brian S. Spencer, Addax, Inc.	1989
TP91-11	Composite Couplings for Cooling Towers	Dennis Van Laarhoven, Consultant	1991
TP97-10	Mechanical Damage Caused by EMF Generated From Fast Bus Reclosure	James T. Heard, Addax, Inc.	1997
TP05-04	Natural Frequency Characteristics of Drive Shafts	Robert Poling, Amarillo Gear Co.	2005

DRY COOLING

TP69-13	The Supplemental Use of Dry Surface in a Cooling Tower System (TP-65A)	J.R. Buss & P.L. Tremont, Monsanto Company	1969
TP83-14	Integrated Wet/Dry Cooling and Plume Abatement With The Binary Cooling Tower (TP-21A)	William G. Sanderson & Richard G. Lancaster, Tower Systems, Inc.	1983
TP98-15	The New Wet/Dry Cooling Tower Without Finned Tube Dry Section (NWD)	Toshio Miura, Osamu Gotoh, Ishikawajima Plant Engr & Const Co., Ltd.	1998
TP03-01	Why Every Air Cooled Steam Condenser Needs A Cooling Tower	Luc DeBacker, PhD & William M. Wurtz, Hamon Dry Cooling	2003
TP04-13	Performance Improvement to Existing Air-Cooled Heat Exchangers	Robert Giammaruti, Hudson Products Corporation	2004
TP05-06	Pressure Recovery Effects in Air-Cooled Installations	Henk Van Der Spek, Howden Cooling Fans	2005

ENERGY EVALUATION

TP81-02	The Manufacturer and Energy-Efficient Cooling Towers (TP-228A)	Kathleen M. Hunt-Atwater B.A.C. Pritchard, Inc.	1981
TP81-03	How To Minimize Energy Consumption With Variable-Speed Fan Control (TP-236A)	Robert W. Corey, Emerson Electric Co., and John C. Campbell, Lilie Hoffmann Cooling Towers, Inc.	1981
TP85-04	Cold Water, Pumping Head and Energy Conservation	Robert Burger, Burger Associates, Inc.	1985
TP85-18	A System Efficient Approach to Cooling Tower Energy Modifications	Greg M. Kelly, The Marley Cooling Tower Company	1985

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TP87-04	Counterflow Cooling Tower Design With High Energy Evaluations	Paul Lindahl, Jr. & Thomas Bugler, III, The Marley Cooling Tower Company	1987
TP91-10	Strategies For Improved Cooling Tower Economy	Steve Adams, Ecodyne Cooling Tower Services, and John Stevens, Film Cooling Towers	1991
TP 96-03	Variable Speed Fan Drives for Cooling Towers	William F. Immell, The Marley Cooling Tower Company	1996
TP00-12	Developing the Worth of Colder Water in a Steam Turbine Generating Station	Thomas H. Hamilton, P.E. Consulting Engineer	2000
TP01-07	Cooling Towers and VFD's	Rick Foree, Danfoss Drives	2001

ENVIRONMENTAL IMPACT

TP67-01	The Relationship of Cooling Tower Operation to Pollution Control (TP-26A)	M.C. Forbes, Aquatrol, Inc.	1967
TP68-02	Review of Thermal Pollution Problems, Standards and Controls at the State Government Level (TP-41A)	William S. Crumlish, P.E., Spkr-Texas Water Quality Board	1968
TP68-03	The Subcommittee on Air and Water Pollution of the Senate Committee on Public Works (TP-42A)	Tor Kolflat, Sargent and Lundy	1968
TP68-04	Monitoring and Control of Industrial Air and Water (TP-43A)	K.D. Ripley, Dow Chemical Co.	1968
TP68-05	An Economic and Engineering Analysis of Municipal Wastewater Renovation (TP-50A)	J.W. Porter, A.N. Hopkins & W.L. Fisher, Bechtel Corporation	1968
TP69-03	Thermal Pollution: A Survey of Cause and Effect (TP-61A)	Michael C. Noland, Midwest Research Institute	1969
TP69-04	Concept of Environmental Planning and Design (TP-71A)	Ashley Martin, Babbitt-Martin & Associates, Inc.	1969
TP70-02	Environmental Aspects of Cooling Tower Plumes (TP-78A)	Eric Aynsley, IIT Research Institute	1970
TP70-03	Trends in Thermal Pollution Control Requirements (TP-81A)	J.I. Bregman, Water Pollution Research and Applications, Inc.	1970
TP70-04	Cooling Towers, The Environment and the Future (TP-88A)	Eric Aynsley, IIT Research Institute	1970
TP70-05	Thermal Criteria - A Measure to Control Thermal Pollution (TP-77A)	Satyendra P. Mathur & Donald B. Stevens, NY Dept. of Health	1970
TP71-02	Thermal Discharges: Their Role in the Environment (TP-105A)	Carl E. Knapp Lewicke, Environmental Science & Tech. An American Chemical Society Publications	1971
TP72-03	Water Pollution Abatement Brings New Ideas to the Cleaning Water Industry (TP-101A)	Allan L. Farber, Tenneco Chemicals, Inc.	1972
TP73-06	The Preparation of a Master List of Chemicals Used in Cooling Towers for Use in Preparation of Environmental Impact Statement (TP-114A)	Robert H. Rainey, Oak Ridge National Laboratory	1973
TP75-01	Programmatic Descriptive Description for Environmental Monitoring and Pollution Abatement at the Y-12 Plant (TP-135A)	Merwyn Sanders, Union Carbide Corporation	1975
TP75-02	Environmental Considerations in Cooling Tower Treatment (TP-136A)	Art F. Brunn, E.I. DuPont de Nemours & Company	1975
TP75-03	Case Study of the Environmental Effects of the Chalk Point Natural Draft Cooling Tower (TP-143A)	Thomas B. Carlson & Frederick M. Shofner, Environmental Systems Corp. and Jerry Pell, State of Maryland	1975
TP75-04	Industry - Living with EPA Regulations Promulgated to Meet the FWPCA Amendments of 1972 (TP-134A)	Jay G. Weidman, Betz Laboratories	1975
TP76-02	Environmental Impact of Chemicals Washed From Preservative-Treated Wood (TP-147A)	J.R. DeMonbrun, Oak Ridge Y-12 Plant, Union Carbide Corporation	1976
TP76-03	Interception and Retention of Cooling Tower Drift on Vegetation (TP-151A)	F.G. Taylor, Jr., D.D. Gray & P.D. Parr, Oak Ridge National Laboratory	1976
TP79-03	A Pilot Study to Detect Vegetation Stress Around a Cooling Tower (TP-210A)	Suresh B. Pahwa & Brent L. Shipley, Intra Environmental Consultants, Inc.	1979

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TP79-04	A Summary of Federal and State Requirements for Commercial Applicators of Pesticides (TP-214B)	D.L. Wilbur, The Mogul Corp.	1979
TP79-05	Toxicology of Cooling Water Treatment Chemicals (TP-207A)	Florence K. Kinoshita, Hercules Inc.	1979
TP88-10	Cooling Tower Asbestos Abatement or Close Encounters with EPA, OSHA, ET AL	Robert Burger, Burger and Associates, Inc.	1988
TP91-12	Comparison of Cooling Tower Mineral Mass Emmissions by Isokinetic EPA Method 13A and Heated Cascade Impactor Tests	Gordon Israelson, P.E., Westinghouse Electric Corp. and Nicholas M. Stich & Thomas E. Weast, P.E., Midwest Research Institute	1991
TP92-02	The Latest Worldwide Technology in Environmentally Designed Cooling Towers	Gary R. Mirsky, Jean-Pierre Libert, & Kathy Bryant, Hamon Cooling Towers and Franz Bouton, Hamon Sobelco, S.A.	1992
T94-06	Molybdate Use in Cooling Towers: Impact of the New EPA Sludge Rule and Alternative Approaches	Brian Lee & Brian Vaska, Drew Industrial Division	1994
TP05-05	Atmospheric Emissions from Evaporative Cooling Towers	Wayne Micheletti, Wayne C. Micheletti, Inc.	2005

ENVIRONMENTAL IMPORTANCE

TP64-05	Use of a Cooling Tower as a Trickling Filter in Pollution Control (TP-9A)	R.M. Smith, The Dow Chemical Company	1964
TP69-14	Effect of Trace Metals on Stream Ecology (TP-60A)	Charles Lanford, Petro-Tex Chemical Corporation	1969
TP78-11	Bacterial Aerosols Generated by Cooling Towers of Electrical Generating Plants (TP-191A)	A. Paul Adams, Dept. of the Army Barbara G. Lewis, Argonne National Labs	1978

FANS

TP62-06	Field Tests of Fan Performance on Induced Draft Cooling Towers (TPR-122)	D.D. Herrman	1962
TP68-06	Axial Flow Fans and Their Application to Cooling Towers (TP-36A)	E.M. Davidson, Hudson Products Corporation	1968
TP69-05	Fan Noise Levels in Cooling Towers (TP-62A)	W.E. Robb, Chittom Equipment Company	1969
TP74-03	Cooling Tower Fans - Today and Tomorrow (TP-120A)	Robert C. Monroe, Hudson Products Corporation	1974
TP77-08	Fan Performance Consideration in Cooling Towers (TP-158A)	David Stackhouse & Kenton Whitehead, Ecodyne Cooling Products Division	1977
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