ThermalEA

4-Day Short Course Focus on Engineering Practice

HEAT EXCHANGER PERFORMANCE ASSESSMENT & MAINTENANCE

Sponsored by Thermal Engineering Associates

Featuring Sessions by
Senior Engineers and
Inspection Experts

Danny Alleman / Bill Closser
James Fisher / Allen Gallaher
Dana Ives / Mark Koss
Paul Koss / Carl Kuester
Dean Leimbach / Carlton Lindell
Chris Speas / Harry Williamson

Hosted by
The Merrick Group
Training Facility
West Hazleton, PA

June 14 – 17, 2016 Tuesday 8:00 a.m. – Friday 4:00 p.m.

Who Should Participate

Practicing engineers and technicians who are involved in plant HX maintenance should consider this course.

Course Objective

The course objective is to provide practical information on HX construction and performance characteristics, inspection, and maintenance, and a forum for interaction with senior practicing engineers and inspection experts.

Course Schedule

Tuesday

- Introduction
- Condensers and Other Shell-and-Tube Exchangers
- Feedwater Heaters
- Tube and Other Failures: Damage Mechanisms
- Materials Selection

Wednesday

- Preventive and Corrective Maintenance
- Visual Inspection
- Eddy Current Assessment
- O & A Session
- Demonstrations

Thursday

- Inspection: Oil & Gas Perspective
- Plant HX Inspection Program Development
- Performance Monitoring and Trending
- Q & A Session
- Demonstrations

Friday

- Heat Exchanger Cleaning with Demonstration
- Power Plant Case Studies: Inspection, Assessment, and Maintenance Process

Instruction

Danny Alleman, Senior Project Engineer Dominion Power

- Thirty years of engineering experience in electric power industry, with experience as a Performance Engineer, System Engineer, and Component Engineer responsible for plant heat exchanger program.
- Extensive experience in heat exchanger maintenance.
- Responsible for managing installation of new turbines and other major equipment as a Project Engineer.
- BSME, Virginia Tech.

Bill Closser, President NuClear Services Group, Inc.

- Provides consulting, testing and support services.
- Over twenty-five years of experience in condition monitoring, plant performance, and equipment reliability.
- Eight years of experience with EPRI. Program Manager, Nuclear Applications and Services; Director of Nuclear and International Services, EPRI Solutions.
- Chairman, ASME PTC 12.5 Committee. Member, ASME OM-21 Committee. Co-author EPRI NP-7552.
- Consultant, Classical HX Analysis, 2015 EPRI Report.
- BSME and BSNE, OSU; MBA, Regis University.

James Fisher, Director of Operations / Sr. Project Manager, The Merrick Group, Inc.

- Current responsibilities include oversight of project managers and supervisors and extend to development and implementation of training programs.
- Twenty years of experience in HX cleaning, inspection, repair, and project management focused on development and execution of cleaning/maintenance contracts.
- NACE Level II.
- BA/BS Liberal Arts, Dickinson College.

Dana Ives, Project Manager, Mistras Group

- Thirty years of experience in heat exchanger inspection and assessment for US/International power, chemical, and oil & gas (onshore and offshore) plants.
- Eddy Current Level III NDE Inspector.
- Initial training and experience as NDI Technician with US Air Force.

Instruction

Allen Gallaher, Project Manager Curtiss Wright – Anatec Division

- BOP heat exchanger inspection and assessment.
- Thirty years of experience in project management of heat exchanger inspection, eddy current testing, and assessment programs in industry.
- Extensive experience in BOP heat exchanger training.
- Eddy Current Level III NDE Inspector.
- BA/MA Math, Northeastern University.

Mark Koss, Consultant Retired as Program Manager – Materials/Metallurgical Engineering, TVA

- Thirty-five years of experience in metallurgical/welding engineering at TVA.
- Extensive experience in materials selection, specification, and failure analysis in nuclear/fossil/hydro plants.
- BSE (Metallurgical), University of Tennessee;
 MSChE, University of Tennessee Chattanooga.

Carl Kuester, Owner Engineering Consultant & Exchanger Repairs

- Twenty-five years with an electric utility; experience in engineering, construction, start up, training, operation, maintenance, and plant superintendent functions.
- Past President, Turbine, Exchanger, Condenser Co., Dynamic Energies Inc., Condenser Technologies, Inc.
- Over fifty years of engineering experience. Consulting in all phases of power plant engineering, with emphasis on heat exchanger equipment, including repairs, removal of sample tubing for analysis, and retubing.
- BSE, Brown University.

Dean R. Leimbach Retired as ISI Specialist – Susquehanna Nuclear Power Station

- Thirty-five years of experience in heat exchanger inspection, testing, condition assessment, and NDE issues, as well as program management and personnel training.
- Previously maintained accreditations: Eddy Current Level III NDE Inspector, Ultrasonic Testing Level III NDE Inspector, ANSI Weld Inspector, NACE Coatings Systems Inspector, Nuclear Power Utility Supervisor Certification, NDE Personnel Training & Certification.
- 1975 USAF NDE Technical School graduate.

Instruction

Paul Koss, Project Manager Curtiss Wright – Anatec Division

- Over twenty-five years of experience in heat exchanger inspection and assessment primarily in fossil/nuclear applications.
- Eddy Current Level III NDE Inspector.
- BS Geology, Western Kentucky University.

Carlton Lindell Consulting Engineer

- Past Vice President, Cramer & Lindell Engineers, Inc.;
 General Manager, Rust-Cramer & Lindell Engineers.
- Over fifty years of engineering experience.
- Extensive experience in eddy current testing in fossil/ nuclear power, chemical, and petrochemical industries, development of inspection standards, and tube failure analysis.
- BSME, MSME, University of Connecticut.

Chris J. Speas, Senior Director The Merrick Group, Inc.

- Twenty-nine years of experience in power plant component inspection and maintenance.
- Experience in inspection project oversight, independent oversight and review of programs and project management.
- Actively participates in EPRI NDE industry working groups.
- Member of ASNT, ASME, and ANS.
- ET Level III.

Harry Williamson, Senior Engineer Duke Energy

- Sixteen years of experience as heat exchanger and pressure vessel consultant on predictive and preventive maintenance for fleet fossil, hydro, and combined cycle power plants.
- Twelve years of experience as design engineer for fleet fossil plants and Oconee Nuclear Station.
- Extensive experience with heat exchanger cleaning, inspection, repair, retubing, manufacturing procedures, trouble shooting, and root cause analysis.
- Registered Professional Engineer.
- BSME, North Carolina State University.

Instruction

Lindon Thomas, President Thermal Engineering Associates

- Forty years in engineering teaching and research.
- Over twenty years of experience in providing industry engineers with heat exchanger analysis training.
- Principle Investigator, 2015 EPRI Report, Classical Heat Exchanger Analysis.
- Author of *Heat Transfer*, Professional Version, 2000 Choice (ALA) Outstanding Academic Title.
- BSME, Tulsa University; PhD ME, Kansas State University.

Registration

Heat	Exch	ange	r Per	formance
Asse	essm	ent &	Mair	itenance

Name	 	 	 	
Company	 	 		
Address	 	 	 	
Email/Phone	 	 	 	

Course Fee: \$1750

Register on-line at www.thermalea.com or forward registration form and payment to

Thermal Engineering Associates

1424 Farrington Dr. Knoxville, TN 37923 Phone: (844) 507-8267 Ithomas@thermalea.com

Event Hotel

Fairfield Inn & Suits by Marriott Hazleton

Phone: 1-570-501-0759 www.marriott.com/HZLFI

Special Room Rate - \$85 (plus 11% tax)

Hazleton, PA is part of a family resort area in the foothills of the Pocono Mountains.