



UNIT OPERATIONS

OFFICIAL NEWSLETTER OF THE AKRON SECTION AICHE

May 2009

UPCOMING MEETINGS

JUNE/JULY FAMILY NIGHT WITH THE AKRON AEROS

DATE: TBD

LOCATION: Canal Park
Downtown Akron

PROGRAM: Weekday Evening

COST: \$7.00 per ticket
Group Rate – 25 minimum

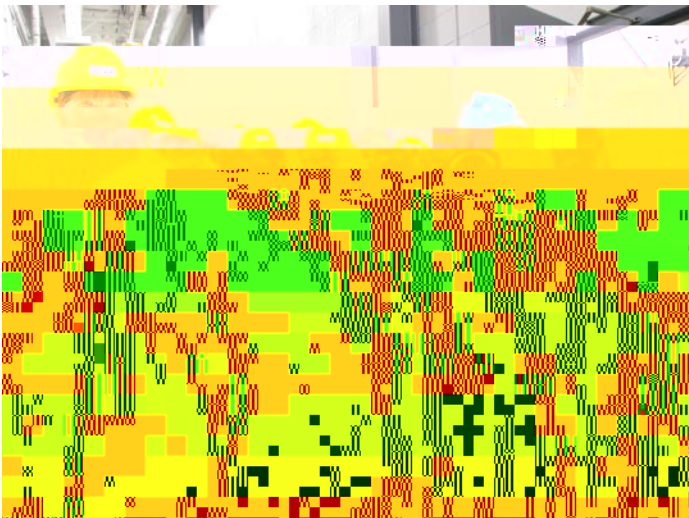
RSVP: **NOTE:** Before we can obtain tickets we need a minimum of 25 interested people. Please respond to Tom Flynn by June 15th if you would be interested and how many tickets you would like. Invitation open to famd t how many

**ASME//AICHE JOINT MEETING
MAY TOUR OF THE NEW B&W RESEARCH
CENTER**

Lisa Rimpf, Stephanie Miksche and Tom Flynn provided a walking tour of the new B&W Research Center that is located in Barberton. After the tour participants went to Parasson's Restaurant in Barberton for dinner. The participants complimented B&W personnel on the quality of the facilities and equipment, and the extent of the research being performed at the center. For many on the tour, it was their introduction to Babcock & Wilcox as a supplier to the power generation industry.



Lisa Rimpf (far right) and her tour group.



Stephanie Miksche (far right) and her "Gang of Seven" including Brent Sisler, ASME Chair (4th from right).

**THE DR. STEPHANIE LOPINA MEMORIAL
ENDOWED SCHOLARSHIP**

The Dr. Stephanie Lopina Memorial Endowed Scholarship Fund was established in September of 2008 and will be funded with contributions from the friends of Stephanie Lopina. Stephanie was a well-liked and effective teacher, an accomplished researcher in biomaterials and controlled drug release, a strong promoter for undergraduate research.

The funds shall be held by The University of Akron Foundation and awarded to students selected by a scholarship committee that will include faculty members from the Department of Chemical and Biomolecular Engineering and Department of Biomedical Engineering.

Contributions are being sought at this time to establish the fund. Please contact Dr. Lu Kwan Ju, the Chair of the Chemical Engineering Department, to find out how to make your contribution.

(330) 972-5760 x7252

lukeju@uakron.edu

**UA CHEM E CAR TEAM NEEDS
CORPORATE SPONSORS**

For the past two years Caterpillar has provided support (\$1500 each year) to support the University of Akron Chem E Car Design Team.

**INTERESTED IN SERVING AS AN OFFICER
OF THE AKRON SECTION OF AICHE???**

The Akron Section of AIChE is seeking officers

Previous Job Postings

Electrical Engineer or Technology Degree to improve reliability of a bulk handling terminal's

LOCAL SECTION SCHEDULE FOR 2008/2009

<i>DATE</i>	<i>TOPIC</i>	<i>LOCATION</i>	<i>SPEAKER</i>
June/July 2009	Akron Aeros Family Night	Canal Park	The players with their bats!!!
August 20, 2009	Officers Meeting	Brubaker's Pub	Members
December 10, 2009	Joint ACS/AICHE Meeting	Tangiers	TBD

AICHE LOCAL SECTION EXECUTIVE COMMITTEE

Position

Name

Phone

E-

JOB POSTINGS

Senior Engineering Group Leader –

- Understanding of division/global engineering processes and how to align resources to meet company objectives

- Ethanol process knowledge and/or production experience will be a plus

Critical experience

- Advanced Degree in Chemical Engineering (PhD Preferred) with minimum 3 years experience in process development and unit operation, advanced degree is preferred. Will consider senior level candidates
- Experience in continuous improvement efforts for products/processes to support plant objectives of safety, quality, cost, and productivity improvement.
- The candidate should have a broad exposure to unit operations, and have experience in starting up and troubleshooting equipment.

Critical technical, professional and personal capabilities

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International Field Service Engineer

My new client on the East Coast is a leading power generation services company which has retained me to identify a Field Service Engineer who enjoys either domestic or international travel (75%).

The successful candidate will be primarily involved in visual inspections ("eye-balling") of steam generator equipment (boilers), inspecting equipment for problems, suitability of application and remaining life. This individual will walk inside boilers with a set of drawings, using scaffolds or cherry pickers, inspecting welds and appropriate equipment.

He/she must be comfortable inside boilers, (must be able to handle sitting on planes for extended periods, working in hot and cold environments, confined spaces, etc). Will analyze failed equipment (but no engineering analysis on site) and write reports on findings. Will also have a small role in training.

The appropriate candidate will have either a Bachelor's degree or commensurate experience. This individual will not only have appropriate technical skills but also must maintain the personal confidence and interpersonal skills to work effectively with engineers, managers and technical people on site.

International sites are largely Western (i.e. "developed") countries and located in larger urban areas. My client does not maintain any facilities in "war risk" countries. Most travel will be to South America, Europe and Israel with very limited travel to Asia, Thailand, and India.

Career Upside: someone with these skills and proven success has both very strong horizontal and vertical career opportunity within this large corporation. Field service engineering is considered the most valuable skill-set by this company. Almost every senior executive (marketing, sales, engineering, operations) including the President started their careers with this organization as a field service engineer.

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Act as a consultant to Lufkin Industries pumping unit sales, service personnel, and customers

Mobile Line: 903-618-0066

E-Mail: bob.turner@narecruiting.net or dr.bobturner@earthlink.net

Web Site: www.narecruiting.net

Research & Development/Application Engineer

Location: North East Texas

Presented by: North American Recruiting and Consulting

Job Code: CRT0716

Client Overview:

Our Client is a leading supplier of consumables, components, systems and complete purification solutions. Founded in 1918, they have been active in virtually all industries throughout the world. Today they offer products, installations and services for the water, beverage, food, dairy, pharmaceutical, chemical, gas/air, mining, catalyst, sweeteners, and remediation industries. Their membranes, aseptic and hygienic valves, carbon dioxide and quality control rank among the worlds best! They offer global coverage with production, engineering and manufacturing facilities in seven countries and a network of dedicated sales and service centers, business partners and distributors in more than 100 countries around the world.

Their main product is used for the purification of a wide range of substances in all kinds of industries. In fact, virtually every product around the world manufactured today has been improved upon at least once by the use of their specific product. They are the world's number 1 supplier of their specific product and related services. They produce well over 150 different types of products to match any conceivable application. They serve the global market from two business units; North America's production facilities for the U.S., Canada, and South America, and their facilities in The Netherlands for Europe, Asia-Pacific, and Africa.

Their facility here in North East Texas has been in its location since the 1920's and has approximately 200 full time employees with a sister plant in Oklahoma. Their products are used in liquid and gas phase purification processes, and in the prevention of potentially harmful emissions. The Texas facility's revenue in 2007 was in the \$80 Million Dollar area. They are expecting an increase in business of 300% within the next couple of years. This facility works a 24/7 and is a Union plant.

This Plant/Maintenance Engineer will report to the Product Manager. This position is open due to an expectation of the 300% growth.

Position Duties & Responsibilities:

The Development/Application Engineer will use their technical, scientific, and engineering knowledge and experiences to provide technical support to Customers, Field Sales, Manufacturing and Business Management in the areas where they are producing new products and existing applications for maintenance. The incumbent will provide technical information and services to solve purification problems and meet commercial needs related to the sale of their product and to develop innovative solutions to newly identified needs. Examples of

3. Lead in new product development and commercial launches for their product's use as identified by Business Management. Serve as a conduit of technical communication for product development activities initiated by their overseas R&D organization
4. Make recommendations to customers concerning their use of our client's product, test and evaluation methods and equipment
5. Obtain performance data of our client's product using lab, pilot, and field tests
6. Assist the manufacturing group in the implementation of new product production methods and the optimization of existing process technologies
7. Prepare reports on projects and activities
8. Participate in relevant professional organizations, trade shows and conferences. Author and/or co-author technical papers for publication at these events or other media
9. Travel to visit customers (10% to 15%). Overseas travel is Possible.

MUST HAVES:

Bachelors Degree in Chemical Engineering or a Chemistry Degree—At A Minimum; Advanced Degree in one of these disciplines PREFERRED, i.e., a Ph.D.

R&D Experience in Chemical Engineering or Chemistry or Chemical Manufacturing
Experience with carbon/coal materials

3 (Three) years or more of full time direct involvement in advanced technical projects focusing on the use carbon/coal in various applications; professional (industrial/business) experience, including customer, applications support

Ability to interact on a technical level with both internal scientific and engineering personnel, and customer technical staffs, and make some engineering calculations

Ability to interact with internal production personnel while involved in projects to manufacture new products, or toje54 617.143oduof ptsxBT0 0 0 rg/Th tinetmer tations

Tyler, Texas 75703

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Power Generation Excitation and Controls National Sales Manager

Sales Manager with 10+ years of Power Industry Controls experience to sell excitation systems, maintenance/repair services, and controls retrofits into the industrial and utility steam turbine markets. The position requires a BS Degree in Engineering or equivalent experience in controls and excitation products and services. Digital & Analog Control System, Excitation System and Turbine Hydraulics knowledge required as well as understanding of the Steam Turbine technology. The successful candidate must have well developed sales skills, be self-managed, computer literate, have strong interpersonal skills - both written and verbal - demonstrated ability to close orders and experience with the proposal & bid preparation process. This position will report to CSD located in Ft Collins, CO. Relocation not required; significant domestic travel. Pay: 80k – 100k base, 60k commission, benefits.

Send your resume to krobinson@METSjobs.com or contact Kim Robinson 770-754-9200.

Kim Robinson, Managing Partner
METSjobs
316 Maxwell Road, Suite 400
Alpharetta, GA 30004
770 754-9200 office
770 751-1728 fax

SR. PROCESS ENGINEER

Location: Tyler, Texas
Presented by North American Recruiting and Consulting
Job Code: CRT0697

Client Summary:

Our client is directly involved in: Process Solutions for the Oil and Gas Industry

They are a global provider of process equipment packages and separation products to the oil and gas industry. Using both cutting edge and conventional technologies, they aim to supply their customers with the most cost effective solution that helps them achieve product specifications.

Although their emphasis is in the oil and gas industry, their products and services are applicable to others including petrochemical, refining, steam production and power generation. Their goal is to be the leader in oil and gas separation technologies through a talented and innovative workforce and their commitment to product development.

They were founded and incorporated in 1985 to design and manufacture process equipment packages and custom designed process internals. Since their inception almost 20 years ago, many of their customers have been E&C companies, fabrication companies, or vessel suppliers. Companies familiar with our client have enjoyed their quality products and on-time deliveries. They continue to receive the highest honor possible from their customers; that is, their repeat business. Our client is known as an expert in the design and supply of process equipment and custom separation products for both onshore and offshore projects.

Their focus is to provide optimal solutions for the entire production system through an integrated design approach using our state-of-the-art separation technologies and know-how.

Essential Functions:

- Assist Engineering Manager with detailed process design work
- Design and size oil, water and gas separation equipment and processes and our client's specialty equipment

Attend seminars/conferences for collecting ideas and keeping abreast of technology changes

Product development participation

Develop/verify/secure usage of in-house software

Assist sales department with proposal development and client interaction

presented through spoken words and sentences.

Written Comprehension — The ability to read and understand information and ideas presented in writing.

Oral Expression — The ability to communicate information and ideas in speaking so others will understand.

Detail oriented, honest, friendly, efficient

Compensation:

Base Salary Range (doe): \$80-100K; This position IS BONUS ELIGIBLE; Excellent Relo;
Excellent Benefits Package

Contact Information:

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Mobile Phone: 903-618-0066
E-mail: bob.turner@narecruiting.net or dr.bobturner@earthlink.net
Web Site: www.narecruiting.net

SR. Project Manager

Location: Tyler, Texas
Presented by North American Recruiting and Consulting
Job Code: CRT0710

Client Summary:

Our client is directly involved in: Process Solutions for the Oil and Gas Industry

They are a global provider of process equipment packages and separation pro3eges2Tyler, Texas

- * Meet project delivery and budget constraints and reporting cash flow to President, Vice President and Controller
- * Quality control of projects, ensuring package is manufactured in accordance with the client specification and general fabrication standards
- * Review, verification and control of all project documentation
- * All project liaison between clients and sub-vendors on a daily basis
- * Address and follow up all technical/commercial issues and clarifications with client and sub-vendors
- * Update senior management (General Manager, President and Vice President) regularly on project progress and report any major concerns
- * Responsible for approving all project invoices
- * Confer with management, production, engineering and marketing staff to discuss project specifications and procedures
- * Coordinate and direct projects, making detailed plans to accomplish goals and directing the integration of technical activities
- * Plan and direct the design, installation, fabrication and testing of facilities and equipment
- * Direct, review, and approve product design and changes
- * Recruit employees, assign, direct, and evaluate their work, and oversee the development and maintenance of staff competence
- * Prepare budgets, bids, and contracts, and direct the negotiation of research contracts
- * Develop and implement policies, standards and procedures for the engineering and technical work performed in the department, service, laboratory or firm
- * Perform administrative functions such as reviewing and writing reports, approving expenditures, enforcing rules, and making decisions about the purchase of materials or services
- * Review and recommend or approve contracts and cost estimates

Work Activities:

1. Communicating with Supervisors, Peers, or Subordinates — Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person
2. Making Decisions and Solving Problems — Analyzing information and evaluating results to choose the best solution and solve problems
3. Getting Information — Observing, receiving, and otherwise obtaining information from all relevant sources
4. Communicating with Persons Outside Organization — Communicating with people outside the organization, representing the organization to customers, the public, government, and other external sources. This information can be exchanged in person, in writing, or by telephone or e-mail
5. Updating and Using Relevant Knowledge — Keeping up-to-date technically and applying new knowledge to your job
6. Coordinating the Work and Activities of Others — Getting members of a group to work together to accomplish tasks
7. Establishing and Maintaining Interpersonal Relationships — Developing constructive and cooperative working relationships with others, and maintaining them over time
8. Analyzing Data or Information — Identifying the underlying principles, reasons, or facts of information by breaking down information or data into separate parts
9. Guiding, Directing, and Motivating Subordinates — Providing guidance and direction to subordinates, including setting performance standards and monitoring performance
10. Identifying Objects, Actions, and Events — Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events

Supervisory Responsibilities:

Supervise 1-2 project engineers/or assistants on a project specific basis. This position reports to the General Manager and the President/CEO

Knowledge, Skills and Abilities:

- * Able to analyze complex or diverse information
- * Able to delegate work assignments, give authority to work independently, set expectations and monitor delegated activities
- * Management experience is a MUST
- * Needs to show ability to manage project teams
- * Able to include staff in planning, decision-making, facilitating and process improvement
- * Able to identify and resolve problems in a timely manner and gather information skillfully

Project Engineer (Two Positions Available)

Location: Tyler, Texas
Presented by North American Recruiting and Consulting
Job Code: CRT0709

Client Summary:

Our client is directly involved in: Process Solutions for the Oil and Gas Industry

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Their focus is to provide optimal solutions for the entire production system through an integrated design approach using our state-of-the-art separation technologies and know-how.

Essential Functions:

- Apply standard practices and techniques and follow operation through series of steps and processes
- Review P&ID's, PFD's and all other project documentation
- Provide instrument engineering support to the procurement team
- Provide project engineering support to the engineering team
- Perform detailed check of the specified scope and engineering requirements of the project
- Project liaison between clients and sub-vendors on a daily basis
- Prepare RFQ files for procurement team and liaison with vendors
- Evaluation of sub-vendor tender proposals, based on technical and customer requirements
- Quality control of projects, ensuring package is manufactured in accordance with the client specification and general fabrication standards

Supervisory Responsibilities:

None

Knowledge, Skills and Abilities:

- Able to analyze complex or diverse information
- Able to delegate work assignments, give authority to work independently, set expectations and monitor delegated activities
- Able to include staff in planning, decision-making, facilitating and process improvement

Able to identify and resolve problems in a timely manner and gather information skillfully
Able to speak clearly and persuasively in positive or negative situations, demonstrates group presentation skills, and conducts meetings
Gives high attention to details
Willing to make decisions
Make timely decisions
Exhibit sound and accurate judgment
Prioritize and plans work activities
Use time efficiently
Develop realistic action plans
Actively promote and personally observe safety and security procedures

Junior to Mid-Level Chemical or Mechanical Engineer

Location: Northern West Virginia/Ohio border.

Experience: 1-6 years in a production environment; knowledge of any of the following is a plus: predictive maintenance, equipment reliability, process improvement, capital projects & cost control. If that person had some training in six sigma &/or lean manufacturing & if they've worked in an FDA environment, so much the better.

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