

2017 Annual Seminar

Resin Based Separations with Industrial Scale Ion Exchange, Adsorption and Chromatography



June 8, 2017
June 9 - Optional

Magic Valley Arts Council, Twin Falls, Idaho



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Resin Based Separations with Industrial Scale Ion Exchange, Adsorption and Chromatography

Few opportunities exist in either industrial or academic environments to acquire knowledge concerning full-scale, resin based separations. This seminar will provide such an opportunity. Speakers will discuss basic principles, applications and practical guidelines.

The lectures will be focused on aspects of resin based separations which are necessary for successful integration into industrial processes.

The seminar will include observation of both pilot and factory equipment and allow participants to create their own network of separation experts. Attendees will interact with R&D personnel, scale-up engineers and representatives of major resin suppliers.

Sufficient time will be provided for interaction between all participants in an informal environment.

Lecture Topics:

- General overview of resin based separation technologies.
- Factors affecting chromatographic separations.
- Starch and bio-based product discovery.
- Process symmetry principles.
- Equipment engineering and design and explanation of fractal shallow bed technology.
- Adsorption applications with ion exchange resins.

Demonstration Topics:

- Ion exchange and batch/SMB chromatography pilot equipment at the ARi facility; discussion of process operation and scale-up.
- Full scale ion exchange and SMB chromatography at a commercial facility; interaction with factory

personnel and operators. (Note: The full scale tour is optional, please indicate your interest in the factory tour when registering.)

Who Should Attend:

- Engineers involved in R&D or design of resin based separations.
- Managers, factory operators and support personnel involved in processes which utilize ion exchange, adsorption or chromatography.
- Chemists involved in analytical support of resin based separations.

Registration

Registration Fee: \$395

Cancellation Policy

The meeting organizers reserve the right to restrict the number of participants or cancel the seminar if necessary. In such a case, the affected participant(s) will be notified immediately. ARi will not be responsible for the purchase of nonrefundable airline tickets or flight cancellation/change of fees.

Venue

The seminar will be held at the Magic Valley Arts Council located at 195 River Vista Place, Twin Falls, ID located inside Elevation 486 Building.

The venue is located within a 20 minute drive from the Twin Falls airport or less than a 2 hour drive from the Boise airport.

The famous resort area around Sun Valley, Idaho is located within a 1.5 hour drive from Twin Falls. Yellowstone National Park is located within 4 hours driving time from Twin Falls.

Accommodations

Rooms have been blocked at the Fairfield Marriott (1788 Washington St. N., Twin Falls, ID 83301) for course participants at a special group rate (please mention the Amalgamated Research group rate) of \$124 per night. The last day to register for room rate is May 17.

Reserve your room by calling the hotel at 1-208-734-8444, or online: <https://tinyurl.com/twftw1>

Day 1 Thursday, June 8, 2017

- 7:50 AM Welcome & Introduction
- 8:00 AM The Increasing Importance of Resin Based Separation Technologies - Vadim Kochergin, President, Amalgamated Research LLC, USA
- 8:35 AM Factors Affecting Chromatographic Separations - Rick Muschi, Tim O'Mara, Sales and Marketing Managers, ITOCHU Chemicals America Inc.
- 9:10 AM Discovering New Separations for Starch and Bio-based Products through Indexing of Chromatography Resins - Collin Martin, Ryan Thomas, Stephanie Chai, Daryl Gisch, and Steve Pease, Dow Water and Process Solutions
- 9:45 AM Coffee break
- 10:15 AM Process Symmetry Principles - Mike Kearney, Technical Director, Amalgamated Research LLC, USA
- 10:50 AM Fractal Shallow Bed (FSB) Technology for Large Scale Separations - Oliver Tzschätzsch, Chris Schulze, Managing Directors, Escon, GmbH, Germany
- 11:30 AM Adsorption Applications of Ion Exchange Resins- Steve Peacock, Project Manager, Amalgamated Research LLC, USA
- 12:05 PM Lunch (catered)
- 1:15 PM Departure for ARi (15-20 min)
- 1:45 PM Practical demonstrations at ARi lab and pilot facilities (ion exchange, batch and SMB chromatography).
- 4:20 PM Return to hotel
- 5:30 PM Mixer/Reception

OPTIONAL Friday, June 9, 2017

Optional tour of an Amalgamated Sugar commercial facility (ion exchange softening and SMB chromatography).

Q and A session with process operators.



Course Registration Form

Resin Based Separations with Industrial Scale Ion Exchange, Adsorption and Chromatography

June 8, 2017

Magic Valley Arts Council
195 River Vista Place Ste 301, Twin Falls, ID 83301
Tel: 1-208-734-2787

Check Payment – mail completed registration form and check to (payable to *Amalgamated Research LLC*):

Amalgamated Research LLC
Attn: Doris Daniels
P.O. Box 228
Twin Falls, ID 83303 USA

Credit Card Payment – e-mail completed registration from to: ddaniels@arifractal.com

Registration Fee: \$395

Name _____
Title _____
Company _____
Address _____
City _____ State _____ ZIP _____
Tel _____ Fax _____
E-mail address _____

Payment Method:

Check

Payable to *Amalgamated Research LLC*

Credit Card

My credit card information is as follows:

Credit Card Type Visa MasterCard

Credit Card Number _____

Credit Card Security Code _____

Credit Card Expiration Date _____

Name on Credit Card _____

Credit Card Billing Address _____

Once your registration and payment are received, you will be sent a confirmation notice via e-mail.

For additional information, please send inquiries to ddaniels@arifractal.com or telephone 1-208-735-5400.