SPRAY TECHNOLOGY SEMINAR
AN IN-DEPTH TWO-DAY SEMINAR ON THE ATOMIZATION AND SPRAYING OF LIQUIDS

Spray Analysis and Research Services
From Spraying Systems Co.
Why Enroll in the Spray Technology Seminar?

If you’re involved with spray technology, this two-day session dedicated exclusively to spray characterization should be a part of your continuing education. The seminar offers a unique blend of theory and practical information that can be applied immediately to your application and result in process improvements and efficiency gains.

This seminar is a unique opportunity to learn from the world’s leading manufacturer of spray nozzles and spray systems with decades of experience with spray optimization worldwide in more than 200 industries.

What You’ll Learn

• **How spray nozzles work**: flow rate equations, spray angle characteristics, spray patterns, spray coverage, hydraulic vs. air atomization, atomization mechanisms and more

• **Spray nozzle characterization and measurement methods**: flow rate, viscosity, pressure, specific gravity and spray distribution/patternation measurements

• **Drop size**: collection techniques, measurement techniques and how to analyze and interpret drop size data

• **Drop size considerations in spray drying, gas cooling and coating**: dehydrating slurries, evaporation concepts, principles of coating suspensions, gas conditioning theory and more

• **How to conduct spray characterization tests**: participants will perform various tests in our state-of-the-art labs, collecting and interpreting data using spray patternators, spray impact testers, drop size and velocity analyzers, a wind tunnel and more

• **The role of modeling in predicting spray performance**: when Computational Fluid Dynamics, Finite Element Analysis, Fluid Structure Interaction simulations should be conducted and how the results are used for performance validation
Program Details

• The Spray Technology Seminar includes two days of classroom instruction interspersed with hands-on testing in our spray labs. Our seminar presenters and lab hosts are engineers from Spray Analysis and Research Services and Spraying Systems Co.

• Participation is limited to 20 attendees to ensure a high level of interaction between instructors and attendees. This also enables every participant the opportunity to conduct several tests in the lab.

• Complete information on seminar dates, registration fees, hotel information and a preliminary syllabus can be found on seminar fact sheet and on www.sprayanalysis.com

Who Should Attend?

• R&D engineers
• Process engineers
• Production engineers
• Project engineers
• Maintenance engineers
• QA/QC engineers
• Commercial development managers
• Technology managers
• Research scientists

Anyone involved with spray cooling, coating, cleaning, marking, drying, lubricating, humidification or atomization will benefit.

REGISTER TODAY

Please review the enclosed fact sheet for details on how to register for our next Spray Technology Seminar. The Seminar is offered on a regular basis so if the upcoming dates aren’t convenient, be sure to consult our website.

www.sprayanalysis.com
What Past Attendees Say About the Spray Technology Seminar

“A great balance of science and art.”

“Extremely useful!”

“Great seminar. Please consider adding an optional 4th day for those who’d like even more lab time.”

“Definitely will recommend to others in my organization!”

About the Seminar Sponsor

Spray Analysis and Research Services is a service of Spraying Systems Co. Its offerings include spray consulting, prototype design and fabrication, and analysis and research services.

Our spray optimization consultants visit customer locations to evaluate spray system performance and offer recommendations to improve performance and minimize costs. We also consult on products at the proof-of-concept development phase.

Spray nozzle performance testing is also part of our offering. In our leading edge laboratories we conduct a wide variety of tests including:

- Spray characterization
- Drop size distribution
- Spray impact
- Spray pattern
- Spray coverage
- Spray angle
- Spray quality
- Evaporation rate
- Residence time
- Dwell time

When physical testing isn’t feasible, we use Computational Fluid Dynamics, Finite Element Analysis and Fluid Structure Interaction to help customers optimize complex applications.

Spraying Systems Co.
Experts in Spray Technology

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Fax: 1.888.95.SPRAY   Intl. Fax: 1.630.260.0842

www.spray.com
MONDAY, APRIL 20

• Spray Nozzle Basics
• Spray Nozzle Design

Lab session:
– Hydraulic Atomization
– Tank Cleaning

Fine-Spray Nozzle Basics

Lab session:
– High-pressure Hydraulic Atomization
– Air Atomization
– Spray Distribution

Spray Nozzle Control

Lab session:
– Conveyorized Applications
– PulsaJet® Electrically-Actuated Spray Nozzles and Precision Spray Control

TUESDAY, APRIL 21

• Spray Nozzle Characterization
• Drop Size Measurements

Lab session:
– Laser Sheet Imaging Spray Characterization
– High Viscosity Material Sprayability

Performance Validation – CFD

Lab session:
– Computational Fluid Dynamics
– Drop Size Spray Characterization

Spray Nozzle Maintenance

• Spray Nozzle Basics
• Spray Nozzle Design

Lab session:
– Hydraulic Atomization
– Tank Cleaning

Fine-Spray Nozzle Basics

Lab session:
– High-pressure Hydraulic Atomization
– Air Atomization
– Spray Distribution

Spray Nozzle Control

Lab session:
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Spray Nozzle Characterization

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Performance Validation – CFD

Lab session:
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– Drop Size Spray Characterization

Spray Nozzle Maintenance
Registration Information:

Register online at www.sprayanalysis.com or call 630.665.5000, ext. 1213

Registration fee:
$1,630 per person before March 30
$1,830 per person between March 30 and April 13
$2,200 per person after April 13

Registration fee includes continental breakfast, lunch and refreshments.
Discounts are available for groups of 3 or more from a single company.
Space is limited to 20 attendees, so register early.

Payment: Check or credit card no later than April 13, 2015.
Checks should be made payable to:
Spraying Systems Co., P.O. Box 7900, Wheaton, IL 60189.

Hotel Information:

Corporate room rates are available for seminar attendees at the Residence Inn Chicago Bloomingdale. Request the Spraying Systems Co. rate when making your reservation.

The Residence Inn Chicago Bloomingdale, IL 630.893.9200

The Residence Inn Chicago Bloomingdale is 3½ miles from Spraying Systems Co. and 30 miles west of downtown Chicago. It is adjacent to Stratford Square Mall, which offers dining and entertainment options, and just three miles from the Schaumburg Metra station.