

# WPCA/Duke Scrubber Seminar

**June 3, 2004 - Thursday (Hilton Charlotte University Place, Charlotte, NC - University Ballroom)**

7:45 to 8:00	Welcome by WPCA Chairman, William Armiger, EPSCO & <b>Safety Tip</b> by Scott Williams, Duke Energy		
8:00 to 8:30	<b>Keynote Speaker/ Duke Update</b> by Jim McCarthy, Duke Energy		
8:30 to 9:30	<b>Wet Scrubber Systems Fundamentals</b> by Phil Rader, Alstom		
9:30 to 9:45	University Ballroom E (Group A)	BREAK (rooms separated)	University Ballroom D-C (Group B)
9:45 to 10:30	<b>Absorber Island Components</b> by Phil Rader, Alstom	9:45 to 10:45	<b>Limestone Island Components</b> by Hugh Benedict, Metso
10:30 to 11:00	<b>Oxidation Systems / Equipment</b> by Phil Rader, Alstom	10:45 to 11:30	<b>Scrubber Metallurgy</b> by Mike Rini, Alstom
11:00 to 12:00	<b>Dewatering Island Components</b> by Jerry Hunt & Bill Timmins, Dorr Oliver-EIMCO	11:30 to 12:00	<b>Scrubber Controls</b> by Dave Muraskin, Alstom
12:00 to 1:00	LUNCH (provided by Alstom in University Ballroom A&B)		
1:00 to 1:30	<b>Waste Water Handling</b> by Dr. John Rodgers, Clemson Un.	1:00 to 1:30	<b>Booster Fans: Selection and Maintenance Considerations in FGD Systems</b> by John Landis, TLT Babcock, Inc.
1:30 to 2:00	<b>Slurry Pumps</b> by Jim Burke, Weir Slurry	1:30 to 2:15	<b>Stacks: corrosion, linings and height</b> by Victor Bochicchio, Hamon Custodis
2:00 to 2:15	BREAK		
2:15 to 3:15	<b>Agitators &amp; Mixing Vessels</b> by Jerry Baresich, EKATO	2:30 to 3:15	<b>CFD for Scrubbers</b> by Brian Dumont, Airflow Sciences
3:15 to 3:45	<b>Organic Acids to Boost Scrubber Performance</b> by Jurgen Dopatka, Alstom	3:15 to 3:45	<b>Wet ESPs - a finishing device</b> by Buzz Reynolds, CR Clean Air Technologies
3:45 to 4:00	BREAK (University Ballroom C,D & E combined)		
4:00 to 6:00	<b>O&amp;M Panel Discussion</b> Joe Tomlinson, PacifiCorp; Mickey Wyman, Reliant, Mark Golightly, FE; Bob Candelaria, SRP		
6:00 to 7:00	Alstom Reception in the Glenwaters Room		

**June 4, 2004 - Friday (Hilton Charlotte University Place, Charlotte, NC - University Ballroom)**

8:00 to 8:15	<b>Safety Tip</b> by Scott Williams, Duke Energy		
8:15 to 9:30	<b>Planning, Construction and Start Experience</b> Joe Tomlinson, PacifiCorp; Richard Gast, Shaw Group; Mickey Wyman, Reliant; Bob Candelaria, SRP; Bill Harding, Alstom		
9:30 to 9:45	University Ballroom E (Group A)	BREAK (rooms separated)	University Ballroom D-C (Group B)
9:45 to 10:45	<b>Limestone Island Components</b> by Hugh Benedict, Metso	9:45 to 10:30	<b>Absorber Island Components</b> by Phil Rader, Alstom
10:45 to 11:30	<b>Scrubber Metallurgy</b> by Mike Rini, Alstom	10:30 to 11:00	<b>Oxidation Systems / Equipment</b> by Phil Rader, Alstom
11:30 to 12:00	<b>Scrubbers Controls</b> by Dave Muraskin, Alstom	11:00 to 12:00	<b>Dewatering Island Components</b> by Jerry Hunt & Bill Timmins, Dorr Oliver-EIMCO
12:00 to 1:00	LUNCH (provided by Alstom in Ballroom A&B)		
1:00 to 1:30	<b>Booster Fans: Selection and Maintenance Considerations in FGD Systems</b> by John Landis, TLT Babcock, Inc.	1:00 to 1:30	<b>Waste Water Handling</b> by Dr. John Rodgers, Clemson Un.
1:30 to 2:15	<b>Stacks: corrosion, linings and height</b> by Victor Bochicchio, Hamon Custodis	1:30 to 2:00	<b>Slurry Pumps</b> by Jim Burke, Weir Slurry
2:15 to 2:30	BREAK		
2:30 to 3:15	<b>CFD for Scrubbers</b> by Brian Dumont, Airflow Sciences	2:15 to 3:15	<b>Agitators &amp; Mixing Vessels</b> by Jerry Baresich, EKATO
3:15 to 3:45	<b>Wet ESPs - a finishing device</b> by Buzz Reynolds, CR Clean Air Technologies	3:15 to 3:45	<b>Organic Acids to Boost Scrubber Performance</b> by Jurgen Dopatka, Alstom
3:45 to 4:00	BREAK (Ballroom C,D & E combined)		
4:00 to 5:00	<b>Open Discussion : Moderated</b> by Scott Williams, Duke Energy		