

## **CENTRIFUGAL PUMPS Advances in Design, Performance and Problem-Solving**

**March 5-8, 2012 / China**

| <b>TIME</b>          | <b>MONDAY (3/5)</b>                                     | <b>TUESDAY (3/6)</b>   | <b>WEDNESDAY (3/7)</b>   | <b>THURSDAY (3/8)</b>                |
|----------------------|---|--|--|--------------------------------------|
| <b>8:30 - 10:00</b>  | Fundamentals of Pump Design: The Diverse World of Pumps | The Design Process 1: Organizing the Process for Design and Choosing Tools | Other Pump Designs: Vertical Pumps, Jet Pumps, Others  | Design Session 5: Other Pump Designs |
| <b>10:00 - 10:30</b> | <b>BREAK</b>  | <b>BREAK</b>   | <b>BREAK</b>   | <b>BREAK</b>                         |
| <b>10:30 - 12:00</b> | Essentials of Turbomachinery Performance                | Design Session 1: Volute Pump  | Design Session 3: Layout of 3-stage Pump Illustrating Common Elements; Historical Data Usage | Specialty Application Discussions    |
| <b>12:00 - 1:00</b>  | <b>LUNCH</b>  | <b>LUNCH</b>   | <b>LUNCH</b>   | <b>LUNCH</b>                         |
| <b>1:00 - 2:30</b>   | Impellers and Inlets                                    | The Design Process 2: Shaping Blades and Vanes for Best Performance        | Design Session 4: Detailed Blading Design of First Stage, Including Live CFD                 | Client Discussions                   |
| <b>2:30 - 3:00</b>   | <b>BREAK</b>  | <b>BREAK</b>   | <b>BREAK</b>   | <b>BREAK</b>                         |
| <b>3:00 - 4:30</b>   | Diffusers, Return Channels, Volutes                     | Design Session 2: Volute Pump Design with CFD                              | Summary of Pump Design Procedures  | Client Discussions                   |