

Name: _____ Title: _____

Company: _____

Address: _____ State: _____ ZIP: _____

Phone: _____ FAX: _____

E-mail: _____ Web site: _____

PURPOSE:

The Hydraulic Institute maintains a “Technical Areas of Expertise” profile on individuals who are candidates for the HI Canvass review process for HI Standards, Guidelines and other technical resources. As needs are identified by the Institute for technical subject matter assistance the data supplied with this form will assist HI Staff in matching needs with qualified individuals. This may include participation on balanced HI committees where user and engineering consultant expertise is needed. Completion of this form does not constitute an obligation to serve if requested by the Institute, nor does it obligate the Institute to limit its call for subject matter experts to individuals who have completed this form.

INTEREST CATEGORY (Select one):

- User Producer General Interest

TECHNICAL AREAS OF EXPERTISE:

Please identify below all areas in which you consider your knowledge to be at an expert level.

Pump Types:

- Air Operated
- Centrifugal
- Controlled Volume Metering
- High speed
- Other Positive Displacement
- Plunger
- Reciprocating and Power
- Rotary
- Sealless (Mag-Drive & Canned Motor)
- Self-priming
- Submersible
- Vertical

Application/Service:

- Agriculture and irrigation
- Boiler feed and other utility
- Building industry
- Chemical service
- Circulating
- Conveying
- Cryogenic applications
- Fire pumps and systems
- Food industry
- HVAC
- Marine applications
- Mining
- Mixing
- Nuclear applications
- Other Industrial or commercial
- Petroleum
- Pulp and Paper
- Pumped storage systems
- Recreation
- Slurry
- Transportation of Solids in Liquids
- Wastewater
- Water

Other Equipment:

- Compressor
- Electric Motor
- Engine
- Fans
- Fluid Drive
- Gas turbine
- Gear
- Instrumentation or Controls
- Steam turbine
- Variable Frequency Drive

Note: Form continues on reverse.

Pumps and Pumping Systems

- Allowable Operating Region for Centrifugal Pumps
- CFD Modeling
- Condition Monitoring For Centrifugal Pumps
- Corrosion and Erosion Analysis
- Coupling Analysis
- Economics of Pumping Systems/Life Cycle Cost Evaluation
- Failure Analysis and Troubleshooting
- Fluid Dynamics
- Forensic Analysis
- Mechanical Analysis & Design (including rotor dynamics & torsional analysis)
- Mechanical Seals
- Metallurgy and Materials Selection
- Noise Analysis
- NPSH Margin for Centrifugal Pumps
- Performance Correction for Centrifugal Pumps Handling Viscous Liquids
- Piping Design (Hydraulic and Mechanical)
- Pump Intake Design
- Pump Systems Assessments; Optimization & Energy Savings
- Reliability Improvement/Maintenance cost reduction
- Root Cause Analysis

- Structural Analysis
- Systems Design and Upgrade
- Vibration Analysis and Balancing
- Wear Analysis
- Welding Engineering

Other

- Expert Witness
- Field Testing
- Inspection Services
- Installation and Startup
- ISO-9001 documentation & development
- Organizational Analysis
- Patent research and prosecution support
- Project Management
- Teaching/Education*
- Turnkey Engineering
- Software: Design/Analysis/Selection

***TEACHING/EDUCATION:**

Please describe the courses you are qualified to teach and/or the courses you have created.

Return to: Hydraulic Institute
9 Sylvan Way, Suite 180 • Parsippany, NJ • 07054 • (973) 267-9700
Return completed form to the Hydraulic Institute by FAX - (973) 267-9055