



# PUMP SCHOOL

## 2017 SCHEDULE

### MONDAY, JANUARY 23

6:00 - 9:00 pm Welcome Reception Embassy Suites Lobby

### TUESDAY, JANUARY 24

6:30 - 7:50 Breakfast Arcadian Gardens

7:15 - 8:00 Registration Colonel Lindbergh

8:00 - 8:15 Welcome/Introduction Colonel Lindbergh

#### TRACK #1

8:00 - 8:15 Welcome and Logistics Colonel Lindbergh

8:15 - 8:45 Pump Parts & Terminology Colonel Lindbergh

8:45 - 9:30 Basic Hydraulics Colonel Lindbergh

9:30 - 10:15 Pump Curves, System Design, TDH, & Friction Colonel Lindbergh

10:15 - 10:30 Break

10:30 - 11:15 System Curves, Pumps in Parallel / Series Bill Schlittler Colonel Lindbergh

11:15 - 12:00 NPSHA/R Steve Schoenbrun Colonel Lindbergh

12:00 - 1:15 Lunch Arcadian Gardens

1:15 - 1:45 Pump Selection Bob Jansen Colonel Lindbergh

1:45 - 2:30 Pump-Flo Selection Software basics Matt Tharp -- Engineered Software Colonel Lindbergh

2:30 - 2:45 Break

2:45 - 3:30 VFD's / Motors - Basics Patrick Hoog --- US Motors Colonel Lindbergh

3:30 - 4:15 Install. & Troubleshooting Jason Davidson Colonel Lindbergh

4:15 - 5: 15 Self Priming Products (RP, Venturi, STX) & Applications David Haas Colonel Lindbergh

6:00-9:00 PM Dinner Kells

#### MC - BOB JANSEN

JOINT SESSION

David Haas

Andrew Enterline

Lloyd Spanke

Bill Schlittler

Steve Schoenbrun

Bob Jansen

Matt Tharp -- Engineered Software

Patrick Hoog --- US Motors

Jason Davidson

David Haas

#### TRACK #2

8:00 -8:15 Welcome Colonel Lindbergh

8:15 - 9:15 System Curves, Pumps in Parallel / Series Derek Petersen Queen Marie Ballroom

9:15 - 10:15 Pump Flo Advanced Matt Tharp -- Engineered Software Queen Marie Ballroom

10:15 - 10:30 Break

10:30 - 11:15 NPSHA/R & HI Standards Steve Schoenbrun Queen Marie Ballroom

11:15 - 12: 00 Slurry Pump Basic Bill Schlittler Queen Marie Ballroom

12:00 - 1:15 Lunch

1:15 - 1:45 Vibration Steve Schoenbrun Queen Marie Ballroom

1:45 - 2:05 Mechanical Seals Duane Hargis Queen Marie Ballroom

2:05 - 2: 30 Metallurgies and Coatings Steve Schoenbrun Queen Marie Ballroom

2:30 - 2:45 Break

2:45 - 4:00 Ragging and Solids Handling Butch Veatch and James Garvin Queen Marie Ballroom

4:00 - 5:00 VFD's / Motors - Advanced Patrick Hoog --- US Motors Queen Marie Ballroom

6:00 - 9:30 Dinner Kells

#### MC - DEREK PETERSEN

JOINT SESSION

Derek Petersen

Matt Tharp -- Engineered Software

Steve Schoenbrun

Bill Schlittler

Steve Schoenbrun

Duane Hargis

Steve Schoenbrun

Butch Veatch and James Garvin

Patrick Hoog --- US Motors



# PUMP SCHOOL

## 2017 SCHEDULE

### WEDNESDAY, JANUARY 25

6:30 - 7:30	Breakfast		Arcadian Gardens
7:30 - 7:45	Load Buses to Cornell		Hotel Entrance
8:15 - 8:30	Arrive / Light Breakfast / Split into 4 Groups		Outdoor Tent
8:30 - 9:10	Factory Tour (All Groups)		
9:10 - 10:10	Assembly Training (Groups A & B)	Keith McPhun /Derek Petersen	
9:10 - 10:10	Test Lab Training (Groups C & D)	David Haas / Steve Schoenbrun	
10:10 - 10:20	Break and switch		
10:20 - 11:20	Assembly Training (Groups C & D)	Keith McPhun /Derek Petersen	
10:20 - 11:20	Test Lab Training (Groups A & B)	David Haas / Steve Schoenbrun	
11:30 - 12:45	Lunch at Cornell Employees & Groups		Outdoor Tent

**THOSE WHO WOULD LIKE TO RETURN TO THE CLASSROOM TRAINING WILL LOAD THE BUS(ES) AT ITS ARRIVAL AT 12:45PM**

**THOSE WHO WOULD LIKE TO CONTINUE FACTORY TRAINING WILL REMAIN ON-SITE UNTIL BUS(ES) ARRIVAL AT 4:30PM**

#### FACTORY TRAINING

#### MC - KEITH MCPHUN

1:00 - 4:00	Advanced Pump Assembly		
4:15 - 4:30	Load Bus(es) For Hotel Bay Doors		Bay Doors
4:30 - 5:00	Bus(es) to Hotel		

#### CLASSROOM TRAINING

#### MC - JANSEN/PETERSEN

1:30 - 2:15	Features & Benefits	Chris Bridgewater	Colonel Lindbergh
2:15 - 3:00	Energy Efficiency	Butch Veatch	Colonel Lindbergh
3:00 - 3:15	Break		

#### TRACK #1

#### MC - BOB JANSEN

3:15 - 4:15	Tier 4 Engines	Bob Morrelli --- Western Power	Colonel Lindbergh
4:15 - 5:00	Pump Calculations--Tying Together Training Basic	Bob Jansen and David Haas	Colonel Lindbergh

#### TRACK #2

#### MC - DEREK PETERSEN

3:15 - 3:45	Advanced Self Priming Products (RP, Venturi, STX) & Applications	David Haas	Queen Marie Ballroom
3:45 - 4:45	Pump Calculations--Tying Together Training Advanced	Ron Aceto	Queen Marie Ballroom

#### TRACK #3 MINING/ INDUSTRIAL

3:15-5:00	Slurry Advanced. Topics covered: Metallurgies, Applications, Seals, Slurry Calculations using Slurry Cor	Bill Schlittler	Fireside
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4:45 - 5:15	Hand Out Certificates		
5:00 - 6:30	Reception - Drinks		Colonel Lindbergh