

## Discussion Group P10: Pipeline Applications

### Leaders:

- Bill Litton (Magellan Midstream Partners LP)
- Bruce Weber (Champion)
- Ralph Dickau (Enbridge Pipelines)
- George Maddox (Best Pumpworks)
- Mike Nigro (Weir Services)
- Marc Hagn (Enterprise)

### Suggested Topics:

- Operation (single, series, batch products, parallel)
- Maintenance (mechanical seals, bearings, pigging, vibration)
- Hydraulic rerates (destaging, volute chipping, volute inserts, impeller underfilling)