



47<sup>TH</sup> TURBOMACHINERY & 34<sup>TH</sup> PUMP SYMPOSIA  
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GEORGE R. BROWN CONVENTION CENTER

*API 692 Short Course*  
*Introduction and Part 1*

Jim Demetriou - Chevron

Robert C. Eisenmann, Jr. - BP Machinery Advisor

Chuck Parker – G. J. Oliver



**TURBOMACHINERY LABORATORY**  
TEXAS A&M ENGINEERING EXPERIMENT STATION

## Bio: Jim Demetriou



**Jim Demetriou** is a Consulting Engineer with Chevron Energy Technology Company in Richmond, California. Since joining Chevron in 2000, he has been providing global SME support for major capital projects, and for upstream, refining and chemicals business units. Prior to this, he was a machinery engineer with Exxon for 20 years, with corporate engineering assignments in New Jersey and refinery assignments in California and Texas. Over his career, he has been involved in selection and specification of new equipment, design audits, system optimization, operations support, root cause analysis, corporate standards development and R&D. He serves as Vice-chairman for API 692 and API SIRE, and as a member of the SOME Steering Committee. He holds a B.E. (Mechanical Engineering, 1980) from Stevens Institute of Technology and is a registered Professional Engineer in California.



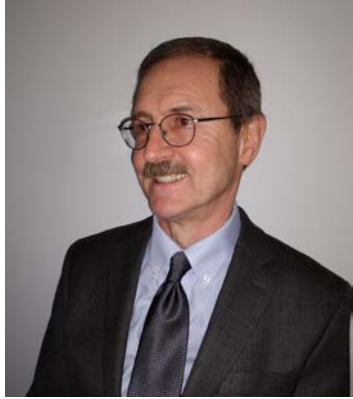
## Bio: Robert C. Eisenmann, Jr.



Currently the BP Refining Machinery Advisor and Downstream Segment Engineering Technical Authority (SETA) with Refining Technology and Engineering based in Houston, Texas. He provides technical advice to the BP global refining portfolio to support business delivery, company strategy, industry direction, and technical assurance to support business decisions. He also promotes technology solutions and development and implementation of best practices across the BP refineries. He is currently the API 618 Chairman, API 692 Chairman, serves as a SME for BP's Engineering Technical Practices and has been a member of the Texas A&M Turbomachinery Advisory Committee since 2012. Bob has over 25 years of experience in the industry. Bob graduated from Texas A&M University at Galveston in 1992 with a B.S. in Marine Engineering.



## Bio: **Charles (Chuck) A. Parker**



**Chuck Parker** is the President of G.J. Oliver, Inc. located in Phillipsburg, NJ where he is involved in all aspects of the business with a focus on engineering. He has contributed to API Standards development for over 28 years and currently serves as the secretary of API 614 and API 692. Chuck has over 40 years of experience in the industry and has worked as a controls and auxiliary systems engineer for Ingersoll Rand, Rexroth and CONMEC prior to joining G.J. Oliver, Inc. in 1999. He holds a BSEE from Lafayette College and holds patents associated with seal oil system pressure control and hydraulic oil amplification for steam turbine valve actuation. He has authored and co-authored technical publications presented at TPS, Pacific Energy Conference, and various user conferences and workshops. He has also previously co-instructed TPS short courses on API 614.



# Course Outline

Dry Gas Sealing Systems for Axial, Centrifugal, Rotary Screw Compressors and Expanders. API 692 1st edition defines design, application, testing, installation, commissioning and start-up requirements for compressor dry gas seals and the sealing system. This course will outline the document structure, nomenclature, seal arrangement, and support system design including default requirements and optional selections. Topics of seal testing and commissioning will also be covered. This 1st edition document replaces API 614 5th edition part 4. A copy of the standard will be provided as part of this course.



# Agenda

**History and Document Overview** – R. Eisenmann

**Part 1** – R. Eisenmann

**Part 4** – R. Eisenmann

**Part 2** – J. Demetriou

**Part 3** – C. Parker

