Deepwater Sedimentary Systems: Science, Discovery and Applications
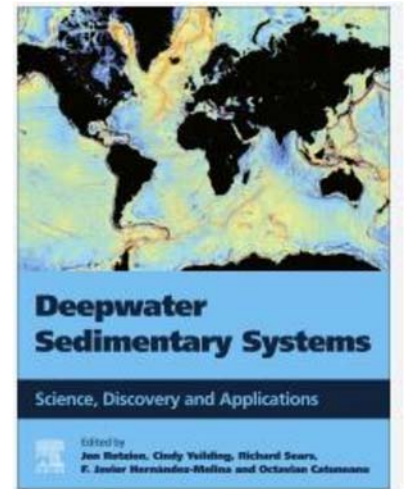
Taught by Jon Rotzien, Ph.D. for the SWS AAPG - Bill Hailey Memorial Short Course

1-day course held January 18, Ft Worth, TX and 19 2024, Abilene, Texas

Deepwater Sedimentary Systems: Science, Discovery and Applications helps industry professionals identify, understand and interpret deepwater sedimentary systems at various scales – both onshore and offshore. This course focuses on the best practices in the integration of geology, geophysics, engineering, technology and economics used to inform smart business decisions in these diverse environments. It draws on technical results gained from exploration and production drilling campaigns and global field analog studies. With the multi-decadal resilience of exploration and production in deepwater systems onshore and offshore, and the nature of its inherent uncertainty, this course serves as the essential reference for companies, consultancies, universities and government agencies seeking to understand deepwater systems and how to explore for and produce resources in these diverse environments. From an academic perspective, participants will use this course as the primer for understanding the processes, deposits and sedimentary environments in deep water – from deep oceans to deep lakes. This course provides conceptual approaches and state-of-the-art information on deepwater systems, as well as scenarios for the next 100 years of human-led exploration and development in deepwater, offshore environments. University students taught this material in today's classrooms will become the leaders of tomorrow in Earth's deepwater frontier. This course provides a broad foundation in deepwater sedimentary systems. What may take an individual dozens of academic and professional courses to achieve an understanding in these systems is provided in this course's reference book (*Deepwater Sedimentary Systems: Science, Discovery and Applications*, Elsevier, 2022, 806 pages) and will be available for purchase at registration and day of the course. **First 100 Registrants** will also receive a copy of *The Explorer's Mindset: Lessons in Leadership in the Applied Geosciences and Energy Industry (*Amazon KDP, estimated publish date August 27, 2023, 331 pages*).

This course specifically:

- Presents a holistic view of how subsurface teams work together in the energy industry, bringing together contributions from the various technical and engineering disciplines
- Provides diverse perspectives to create an accurate picture of the process of deepwater exploration and production using a variety of global examples
- Helps professionals and students understand how to interpret deepwater systems at various scales to inform smart business decisions

See some recent reviews of courses and the book **Deepwater Sedimentary Systems**:
- AAPG Explorer review by Charles Sternbach
- Field course and seminar in Barbados
- McCombs School of Business at University of Texas at Austin course
- University of Houston Earth and Atmospheric Sciences announcement
- Houston Geological Society event featuring J. R. Rotzien and C. A. Yeilding