

RICHARD SCHULTZ

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- Underground Energy Storage • Collaboration across Silos and Disciplines
- Effective in Academic, Industrial, Government, and Consulting Organizations

SUMMARY

Sustained leadership in defining, managing, and completing complex teams that span disciplines and industries. Collaborative and engaging leadership style. Successful management of projects and human capital to achieve strategic and tactical goals. Excellent writing, presentation, and client relations skills honed to serve diverse technical and non-technical stakeholders including international clients.

HIGHLIGHTS

- 21 years in academia (Foundation Professor of Geological Engineering, Emeritus, University of Nevada, Reno); 4 years co-leading world-wide Subsurface Containment Assurance initiative at ConocoPhillips in addition to technical work with global business units; 4+ years in consulting for legal, regulatory, and technical firms in upstream and midstream energy markets; comfortable in matrix and traditional organizational settings.
- Tactful and articulate, safety oriented, client minded, can lead project teams within time and budget.
- Multiple awards from academia and industry.
- Author or coauthor of 1 book, 5 edited volumes, 15 chapters in books or edited volumes, 117 papers, and about 260 abstracts and presentations (95 others invited).

TESTIMONIAL

"I had the pleasure of having Dr. Schultz as a speaker on our 15th Annual Gas Storage Outlook Conference. His session titled Capturing Risk and Integrating Workflows in the Post-Aliso Canyon Era was very well received by the audience and I found him to be engaging and quite knowledgeable on regulatory matters impacting the natural gas storage market. I appreciate the opportunity to invite him to future conferences so that he may share his expertise."

Nate Connors, Conference Manager, S&P Global Platts

ABRIDGED EXPERIENCE

American Rock Mechanics Association (ARMA)

Volunteer • Houston, TX

1996 – Present

Apply background in geomechanics to lead ARMA's efforts in the global energy transition.

- Board of Directors (2021–present).
- Founder and Charter Member (1996).
- Founding Chair, [Distinguished Service Award](#) Selection Committee (2020–present).
- Founding Chair, [Underground Storage and Utilization Technical Committee](#), including pioneering the use of social media such as LinkedIn® <https://www.linkedin.com/in/usutc-arma-508b1a1b6/> and YouTube

<https://www.youtube.com/channel/UCLmVda-7Eb0-AFadr4AIKNw/> to host videos and related materials for ARMA (2020–present).

- Member, Bylaws Committee (2020–2021).
- Technical Program Chair, *52nd US Rock Mechanics/Geomechanics Symposium*, Seattle, WA (2018).
- Co-Chair of the *35th U.S. Symposium on Rock Mechanics*, Lake Tahoe, with J. Daemen (1995).

Orion Geomechanics LLC – www.oriongeomechanics.com

Consultant/Owner • Houston, TX 1990 – Present

Personal consulting business in underground natural gas storage, petroleum geomechanics, structural geology, and rock mechanics providing expertise to various companies and industries.

- Structural geology and geomechanics subject matter expert (SME) for clients including Southern California Gas Company; STORENGY SAS; Geostock SAS; Wild Well Control; WSP USA; Geostock Sandia, LLC; Weatherford International Customer Advisory Board; Shell International Exploration and Production; Chevron Petroleum Technology; Newmont Gold Company; Noranda Exploration, Inc. and Kennecott Exploration Company.
- Consulting Expert for litigation involving subsurface integrity issues. Retained by major law firm to provide expert opinions on cases involving subsurface integrity. Can opine on geology, geomechanics, and subsurface integrity related to oil and gas fields and underground natural gas storage. Company has been listed on consulting expert directories including ExpertPages, LegalDirectories, SEAK, and Engine Group.

Integrity Subsurface LLC – www.integritysubsurface.com

Co-Founder and Partner • Houston, TX 2018 – Present

Specialized company providing storage solutions to a variety of energy systems. Leverage existing physical and technical infrastructure from natural gas S&T (storage and transport) facilities to generate solutions for the underground storage industries.

The University of Texas at Austin

Senior Research Scientist • Austin, TX 2015 – 2017

The Cockrell School of Engineering at The University of Texas at Austin has been among the most well-regarded engineering programs in the US; the Hildebrand Department of Petroleum and Geosystems Engineering's undergraduate and graduate degree programs have been ranked as among the top 5 in the nation by U.S. News & World Report.

- Collaborated with research and graduate students in petroleum-system geomechanics via industry-funded programs in Fracture Research and Application Consortium and Texas Center for Integrated Seismicity Research.
- Instructor for TopCorp multi-university partnership for oil and gas regulators and policymakers; facilitated workshops on subsurface integrity and geomechanics.

ConocoPhillips Company

Principal Geomechanicist • Houston, TX 2011 – 2015

ConocoPhillips has been one of the country's largest independent oil-and-gas exploration and production company, based on proven reserves and production of liquids and natural gas.

- Provided global leadership to geosciences, reservoir engineering, and drilling & wells teams across the company's exploration and production activities in onshore and offshore assets. Collaborated on projects with field operating personnel, geoscientists, reservoir engineers and outside entities.
- Co-led the conceptualization, development, implementation and global deployment of subsurface containment assurance methods, tools and training programs. Analyzed containment hazards and implemented recommendations for risk mitigation.
- Led or co-led technical project teams in fractured crystalline and chalk reservoirs, heavy oil, deepwater assets including Alaska, Canada, Norway/North Sea, Russia, Libya, Indonesia, and Malaysia.

University of Nevada

Foundation Professor of Geological Engineering and Geomechanics • Reno, NV 1990 – 2011

Led research and training in geological engineering and planetary geomechanics; recognized as accomplished researcher and educator.

- Authored or coauthored more than 95 papers in peer-reviewed journals, 4 books and edited volumes, 13 chapters in books and edited volumes, and more than 250 abstracts and presentations with more than 50 invited seminars to academia and industry.
- Created 16 courses in geological engineering, rock mechanics, geomechanics, geology, structural geology, and planetary science; raised more than \$5 million in research support individually or in collaboration with colleagues.
- Served as visiting professor or guest researcher at Université Montpellier II, Montpellier, France; Université de Paris-Sud, Paris, France, Université Pierre et Marie Curie, Paris, France and MIT/Woods Hole Oceanographic Institution.

EDUCATION

Purdue University - West Lafayette, IN

Ph.D. in Geomechanics and Structural Geology

Arizona State University - Tempe, AZ

Master of Science in Structural Geology

Rutgers University - New Brunswick, NJ

Bachelor of Arts in Geology

CERTIFICATIONS

- State of Texas: Licensed and registered as Professional Geologist (P.G.) #11755
- The University of Texas at Austin: Certificate in “Human Dimensions of Organizations—with concentration in Organizational Improvement”
- Rice University: Certificate in “Strategic Project Management”
- University of California Berkeley School of Law Executive Education: Certificate in “ESG: Navigating the Board’s Role”

SKILLS

- Recognized as Subject Matter Expert (SME) in underground natural gas storage geomechanics, reservoir/overburden geomechanics, knowledge sharing and expertise capture, and subsurface containment assurance
- Can engage, communicate, motivate, evaluate, mentor, and lead or co-lead multi-disciplinary teams including scientists and engineers, senior management and external stakeholders

SIGNIFICANT AWARDS AND HONORS

- Board of Directors, American Rock Mechanics Association (ARMA)
- Presidential Citation for dedicated service in managing the technical program for the 52nd US Rock Mechanics/Geomechanics Symposium.
- Member, Interstate Oil and Gas Compact Commission (IOGCC)
- Fellow, Geological Society of America (GSA)
- SPIRIT Award for Innovation, Indonesia Water Management Team, ConocoPhillips.
- Member, Society of Petroleum Engineers (SPE), American Association of Petroleum Geologists (AAPG), American Geophysical Union (AGU)
- Foundation Professor of Geological Engineering and Geomechanics at the University of Nevada, Reno (Emeritus)
- National Academy of Sciences/National Research Council postdoctoral fellow, NASA Goddard Space Flight Center