THE SOCIETY FOR SEDIMENTARY GEOLOGY

2021 SEPN SCIENCE AWARDS

September 29, 2021 7 - 10 PM CDT

PROGRAM





SEPM SCIENCE AWARDS

Twenhofel Medalist – Terry Jordan Cornell University Honorary Membership – Kitty Milliken University of Texas, Austin Moore Medalist – Nigel Hughes UC, Riverside Shepard Medalist – Stanley Riggs East Carolina University Pettijohn Medalist – Isabel Montañez UC Davis Dickinson Medalist – Cari Johnson University of Utah Wilson Medalist - Emily Smith Johns Hopkins University

PROGRAM

Presented by Mike Blum

Recognitions and Thanks

Introductory Remarks Annual Meeting Committee SEPM Council and Staff

SEPM Outstanding Journal Papers Awards JSR PALAIOS

SEPM Science Awards

James Lee Wilson Medalist – Emily Smith Dickinson Medalist – Cari Johnson Shepard Medalist – Stanley Riggs Pettijohn Medalist – Isabel Montañez Moore Medalist – Nigel Hughes Honorary Membership – Kitty Milliken Twenhofel Awards – Terry Jordan

Concluding Remarks

ORGANIZING COMMITTEE

Thank You for your Time and Effort

WILSON MEDAL SELECTION

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OUTSTANDING PAPERS IN THE JOURNAL OF SEDIMENTARY RESEARCH

For papers that represent significant advances in knowledge and the quality of JSR

Winners

Capturing Key Attributes of Fine-Grained Sedimentary Rocks In Outcrops, Cores, and Thin Sections: Nomenclature and Description Guidelines

> Authors: O. Remus Lazar; Kevin M. Bohacs; Joe H. S. Macquaker; Juergen Schieber; Timothy M. Demko DOI: https://doi.org/10.2110/jsr.2015.11

Stromatolite Provinces of Hamelin Pool: Physiographic Controls On Stromatolites and Associated Lithofacies

Authors: Erica P. Suosaari; R. Pamela Reid; Amanda M. Oehlert; Phillip E. Playford; Carl K. Steffensen; Miriam S. Andres; Gregory V. Suosaari; Gary R. Milano; Gregor P. Eberli DOI: •https://doi.org/10.2110/jsr.2019.8

OUTSTANDING PAPERS IN PALAIOS

For papers that represent significant advances in knowledge and the quality of PALAIOS

Winner

Tracing Origin and Collapse of Holocene Benthic Baseline Communities in the Northern Adriatic Sea

Authors: Gallmetzer, Alexandra Haselmair, Adam Tomasovych, Anna-Katharina Mautner, Sara-Maria Schnedl, Daniele Cassin, Roberto Zonta & Martin Zuschin DOI: https://doi.org/10.2110/palo.2018.068

Honorable Mention

Experimental Preservation of Muscle Tissue in Quartz Sand and Kaolinite

Authors: Sharon Newman, Mirna Daye, Sirine Fakra, Mathew Marcus, Mihkel Pajusalu, Sara Pruss, Emily Smith and Tanja Bosak DOI: https://doi.org/10.2110/palo.2019.030

Conch Fritters Through Time: Human Predation and Population Demographics of *Lobatus Gigas* on San Salvador Island, the Bahamas

> Authors: Mikaela Ruga, David Meyer and John Huntley DOI: https://doi.org/10.2110/palo.2018.054

JAMES LEE WILSON AWARD Excellence in Sedimentary Geology by an Early Career Scientist

Dr. Emily F. Smith



It is both an honor and pleasure to introduce Emily (Emmy) F. Smith as the 2020 recipient of the SEPM James Lee Wilson Award. Emmy is first and foremost a field geologist. Her data and interpretations have been hard earned with months of fieldwork in the deserts of Central Asia, the Kalahari, and the Mojave. Part of her success is her intellectual brilliance, but equally important are her positive attitude and leadership skills in the field that continually bring teams together to work with alacrity through difficult conditions in unforgiving landscapes.

Emmy's work and spirit exemplifies excellence in field-based sedimentology, that is, using the richness of the stratigraphic record to address important questions in Earth history.

Emmy's research is focused on two critical questions in Earth history and our origins: 1) The Cambrian Explosion (Darwin's dilemma)—if evolution is a gradual process then why do complex animal fossils appear in the record so abruptly in the Cambrian Period? 2) Why are there large apparent changes to the carbon cycle during this critical period of evolution? By developing Ediacaran-Cambrian records in disparate locations across three continents, and integrating Sedimentology, Paleontology, Geochronology, and Geochemistry to do so, Emmy has built the ideal natural laboratories to test proposed drivers for coupled environmental and evolutionary change through this critical interval.

What is additionally unique about Emmy's work in Earth History is that she is redefining the scruffy image of a field geologist and mentoring students in her own image – many of whom are among the next generation of women scientists and leaders in this field. Representation matters, and it is a joy to have Emmy as a colleague and friend, and to watch her grow as a leader in the field.

Emily F. Smith is recognized with the 2020 SEPM James Lee Wilson Award for her seminal contributions to development of integrated bio-, chemo-, chrono-, and physical-stratigraphic records through the Ediacaran-Cambrian transition.

Biographer: Francis McDonala

WILLIAM R. DICKINSON MEDAL For recognition of a mid-career research geoscientist

Dr. Cari L. Johnson



I am delighted to introduce Dr. Cari L. Johnson as the 2021 recipient of the SEPM Dickinson Medal. Cari is tenacious in her pursuit of sedimentary geology innovation. She is skilled at solving basinscale sedimentary and tectonic problems by combining basic field and observational skills with quantitative tools and methods across multiple subdisciplines. Her work on sedimentary geology and its applications to tectonics is grounded in fundamental field-based science, and has advanced understanding of complexities and architecture in nonmarine, tidal, and shallow marine depositional systems.

Cari's tremendous contributions as an educator and mentor over 17 years at University of Utah is evidenced by the community of students, post-docs and junior faculty she has mentored. Her principle gift has been to train students in how to think, privileging their own scientific inquiry and maturation over a more prescriptive approach. She has raised a new generation of creative, talented, and critically-thinking geoscientists, as well as been a role model and resource to many.

Early exposure to the great outdoors sparked a keen interest in natural sciences that led her to pursue a bachelor's degree at Carleton College. The passion of her mentors at Carleton and several outstanding field-based opportunities led her then to pursue a PhD at Stanford University with Dr. Stephan Graham. Her field-based dissertation was a multi-disciplinary study of Mongolian rift systems and implications for petroleum system development. Her work on the tectonic evolution of Mongolia remains an active area of her research with continued expertise and long-lasting contributions in the field.

Quantitative reservoir characterization, paleogeographic and paleoenvironmental reconstruction of Cretaceous fluvial to shallow marine siliciclastic strata of the Kaiparowits Plateau has been the main the focus of the last decade of her research. More recently, she has been characterizing and building digital outcrop models of Permian deltaic systems in the Karoo Basin, South Africa as a reservoir analogue.

WILLIAM R. DICKINSON MEDAL

For recognition of a mid-career research geoscientist

Dr. Cari L. Johnson

Cari is a mother to two girls and one Portuguese Water Dog, and is an advocate for the dual vocation of mother and scientist. In her spare time, Cari can be found on the tennis court, on her bike, or at boxing. Cari also enjoys beer, friends, and being awesome.

For innovation in sedimentary geology and basin analysis. For dedication to basic field and observational skills as well as quantitative tools. For her unwavering commitments: Mother, Teacher, Mentor, Researcher, and Friend. Pursued always with a vulnerable excellence that inspires more.

Biographer: Lauren Birgenheier

FRANCIS P. SHEPARD MEDAL For Excellence in Marine Geology"

Dr. Stanley Riggs



Stan Riggs, Emeritus Distinguished Professor in the Department of Geological Sciences at East Carolina University (ECU), graduated from Beloit College in 1960 with a BS in Geology, from Dartmouth College in 1962 with a MS in geology and he earned a PhD in Geology from the University of Montana in 1967.

Stan's early research on onshore and offshore phosphorites was of immense value to many third world countries and he was awarded the Oliver Max Gardner Award in 1983 for the single faculty member in the University of North Carolina system who has "made the greatest contribution to the welfare of the human race." From 1984 to 1988 he was Co Director of IGCP 156—Phosphorites.

A commentator stated, "I doubt if there is a country in the world that has not benefited from the work of Project 156 through the publications, training, and expertise".

Since 1967, Stan's research on the coastal geology of North Carolina has been broadly applicable to barrier island coastal systems around the world. In 2000 he codesigned, and then led for over a decade, a USGS-funded multi-institutional cooperative that resulted in ca. 70 peer-reviewed publications, ca. 180 abstracts, 4 PhDs and 31 master's degrees from ECU alone.

Stan has a deep conviction that scientific research should be not only relevant to humankind but also communicated beyond the world of academia. Among many appointments, he served on the NC Governor's Committee on Marine Natural Resources in the early 1970s, the State Emergency Response Team for the NC Division of Emergency Management (1998-2003), and the NC Legislative Commission on Global Climate Change (2005-2011). In 2013, he founded "North Carolina Land of Water", a non-profit organization whose mission is to enable the long-term, sustainable economic development of coastal North Carolina through wise management of natural resources.

FRANCIS P. SHEPARD MEDAL

For Excellence in Marine Geology"

Dr. Stanley Riggs

In addition to teaching his many students for some 50 years, Stan's educational efforts have reached far and wide. He has lectured and led field trips for numerous teacher-training workshops that introduce high school educators to coastal processes. Stan has also got the word out on coastal processes and climate change through many documentaries on NC public television. Through his skills as a communicator, Stan's scientific research will influence the management of our coasts for decades to come.

For more than 50 years of rigorous research, inspirational teaching, and accessible outreach, and for a vision that will contribute to wise management of our coasts in the coming years of climate change. His work for the benefit of humankind will have an influence far into the future.

Biographer: Steve Culver

FRANCIS J. PETTIJOHN MEDAL For Excellence in Sedimentology

Dr. Isabel P. Montañez



Born in Geneva, Switzerland, Isabel P. Montañez has been moving westward all her life – first to England, then Pennsylvania and finally to California, where she is currently Distinguished Professor and Chancellor's Leadership Professor at UC Davis. Following her 1989 Ph.D. in Geology from VPI, Isabel took up an academic position at UC Riverside and subsequently joined the faculty at UC Davis in 1998. She has written 140 scientific articles; advised and mentored dozens of research students, from undergraduates to post-docs; won teaching awards and numerous research grants; and played key leadership roles in service to sedimentology and geology.

Isabel has made significant in-roads in our understanding of intervals of major perturbations of the global carbon cycle, which are associated with large-scale and typically abrupt climate change and widespread oceanic anoxia. For example, her Cambrian oceanographic framework revealed the highly dynamic environmental conditions of the early metazoan world, and provided a Sr and C isotopic chronostratigraphy that offers, arguably, the highest temporal resolution for this early period of Earth's history. Furthermore, she established the first astronomically calibrated constraint on the timing of marine ecosystem recovery following the end-Permian mass extinction. Isabel's empirical-modelling approach to investigating past icehouse to greenhouse states has illuminated how climate and ecosystem processes respond to evolving CO2 environments such as those we anticipate into the future – along the way challenging existing scientific paradigms, and revealing elusive, counter-intuitive interactions and feedback relationships in the Earth System. She also has worked on Late Quaternary linkages between mega-droughts and North Atlantic sea temperature fluctuations, with implications for how water resources might evolve in the arid West with continued climate warming.

FRANCIS J. PETTIJOHN MEDAL For Excellence in Sedimentology

Dr. Isabel P. Montañez

Isabel has served on numerous National Academy of Sciences and NSF committees, producing key Earth-life transition initiatives, was President of GSA, and has held many journal editorships and memberships on advisory boards. Her scholarly recognition is far-reaching and includes many fellowships (e.g., Union/AGU, Geochemical Society, European Association of Geochemistry, AAAS, GSA), and medals and awards (e.g., Lamarck/EGU, Sloss/GSA, Wilson/SEPM, Sproule/AAPG).

For her outstanding, game-changing contributions to geosciences in the field of paleoclimatology, which has led to our enhanced understanding of Earth's climate-life system over the past half-billion years, and her platinum service to the scientific community, Dr. Isabel Montañez epitomizes sustained excellence in sedimentology.

Biograher: Kathy Campbell

RAYMOND C. MOORE MEDAL FOR PALEONTOLOGY

Dr. Nigel Hughes



Nigel Hughes is remarkable in that he has made fundamental contributions in two disparate fields, namely biological and evolutionary aspects of trilobites, and the paleontology and geology of South and Southeast Asia. Nigel's contributions to the understanding of trilobites (e.g., ontogeny, evolution) are groundbreaking, yet he has published on many other fossil groups: organic microfossils and macrofossils, trace fossils, hyoliths, conulariids, bradoriids, and brachiopods. Nigel's strengths include considerable quantitative and statistical skills, an encyclopedic memory for complex stratigraphy of multiple regions across Asia, and an ability to integrate wide ranging data sets to solve complex problems.

Nigel's paleontological study in the Himalayan region will stand as the definitive work of this area for the modern era. His work on the Cambrian trilobite record of northern India spans more than three decades. More recently, he has made prodigious contributions to the understanding of Precambrian through Cambrian geology and paleontology across many adjacent regions, including Tibet, Bhutan, China, Vietnam, Thailand, Malaysia, and Myanmar. Nigel's 2016 Earth-Science Reviews paper will stand as a seminal reference publication for Cambrian paleontology across the Himalayan Range for many years to come. His research has also substantially challenged the views of Himalayan workers about the ages and geological structure of the different sectors of the mountain range, and their relationships to each other.

Nigel is also an award-winning teacher and has published numerous articles for the popular press, including his 2012 illustrated children's book Monisha and the Stone Forest. It was translated into Bengali (a language that he is fluent in), and six thousand copies were distributed for free to children in India. This is a creative example of Nigel's efforts of outreach, and is part of a body of work that establishes him as one of the great ambassadors of science, and paleontology in particular, to South and Southeast Asia.

Nigel Hughes is a leader in the study of trilobytes, applying cutting edge biological concepts to analyze past arthropod development. His studies of Himalayan strata has allowed for construction of an orogen-wide stratigraphic architecture, and the exploration of major questions concerning the tectonic and paleogeographic evolution of South and Southeast Asia.

Biographer: Paul Myrow

HONORARY MEMBER

Dr. Kitty Lou Milliken



Honorary membership in SEPM is given to Kitty Lou Milliken in recognition of her service to SEPM and her accomplishments in the field of sedimentary petrology. She is the seventh female scientist to be so honored out of 125 awards since 1930 and only the third since 1978.

Few students enter college as geology majors and even fewer know they want to be geologists in high school. Kitty was the rare example whose interest in sedimentology started in grade school during forays into the rocky fields and streams of southern Kentucky, including a memorable 1968 GSA field trip where her geo-mentor, Peter Whaley, introduced her to his PhD advisor, John Ferm. Kitty went on to

receive a B.A. in Geology at Vanderbilt University in 1975, the same year she first joined SEPM and also transitioned to the graduate program at the University of Texas at Austin to work with the legendary Robert "Luigi" Folk. SEPM has been a constant thread in the tapestry of Kitty's career. Her Master's thesis on silicified evaporites would produce her first paper, a 1979 publication in the Journal of Sedimentary Petrology (JSP). At UT, Luigi (Twenhofel Medalist) and Earle McBride (Pettijohn Medalist), both SEPM Honorary Members, introduced her to the wonders of sedimentary petrology and the "vagaries" of diagenesis. Lynton Land (another Pettijohn Medalist) introduced her to sedimentary geochemistry and set her to work on a PhD project defining the sedimentary inputs and diagenetic products of the Gulf of Mexico stratigraphic succession. It was in this period that she did her first work on mudstone petrology. Her PhD (1985) was followed by a string of seminal papers on Gulf Coast clastic provenance and burial diagenesis, six of which were published in JSP from 1988-1994. Altogether she has authored and co-authored sixteen papers in JSP and its successor the Journal of Sedimentary Research (JSR).

HONORARY MEMBER

Dr. Kitty Lou Milliken

At the invitation of John Southard, Kitty began her term as Associate Editor for JSR (1993 - 2000). As co-Editor of JSR from 2004-2008, she worked with Colin North to advance the citation performance of JSR, increase the number of publication pages, and transition from paper copies to digital review. Later, as SEPM President from 2014-2015, she encouraged the memorandum of understanding with IAS---something that has led to joint sponsorships of meetings and sessions, including the upcoming ISGC. She has a long history of activity in the SEPM Clastic Diagenesis research group, chairing the group in 1991 and 2003.

Post-PhD Kitty took on a variety of research and lecturer positions at UT Austin eventually becoming a Senior Research Scientist, with published work that covers diagenesis in sandstones, mudrocks, limestone, dolomite, chert, and serpentinite as well as microscopy methods, and educational materials for sandstone, mudrock, and carbonate petrology. During this time she made forays into two petroleum research labs (Exxon Production Research and Institut Français du Pétrole), and sailed on her first of five Ocean Drilling Program scientific expeditions (149, 316, 320t, 338, 362), broadening her research experience into unconsolidated muds. In 2008, she moved to the Bureau of Economic Geology where she has further explored the mysteries of mudrock diagenesis with a focus on rock property evolution through combined compaction and cementation. Her publications are many (>125), varied in topic, and highly cited.

She adds this award to a long list of other honors including: GSA Fellow (2008), AAPG Berg Outstanding Research Award (2015), AAPG Distinguished Lectureships, publication awards from AAPG (Pratt), International Association of GeoChemistry (Hitchon), and awards for Teaching with Technology from the University of Texas at Austin.

For exceptional service to SEPM as a leader and editor and to the field of sedimentary petrology as a scholar, explorer of the microscopic realm, creator of petrological educational materials, vibrant collaborator, and outstanding role model.

Biographer: Kathie Marsaglia

WILLIAM F. TWENHOFEL MEDAL For a Career of Outstanding Contributions in Sedimentary Geology

Dr. Teresa E. Jordan



Terry Jordan's enthusiasm for research is matched only by her openness and generosity in sharing her ideas with students and professionals alike.

Throughout her career, Terry has coupled field observations with process-based models to illuminate how continental basins couple with orogenic systems and record mountain belt evolution. She envisioned how thrust loads drove the form and evolution of foreland basins and she developed one of the earliest approaches to model surface processes with geodynamics to illuminate the coupling between tectonics and sedimentation. These contributions established the foundation for the quantitative coupling of tectonics, surface processes, and basin evolution that continues today.

Her application of sedimentology and stratigraphy in South America continues to result in a great and more complete understanding of systems and processes that include sedimentary basins, mountain uplift, interactions between paleoclimate, surface processes, water resources, and natural hazards.

With US and South American colleagues, she studied the dry salt lakes of the Puna in Argentina and Atacama Desert of Chile. She has embraced knowledge of halite petrology and isotope geochemistry and folded them into a stratigraphic model to better understand their context and implications. She expanded her studies to include: the study of water resources through architectural structures of complex aquifer systems; the analyses of, and hazards arising from, torrential desert storms; the study of fossils and soils and their importance in the stratigraphic column in defining surface processes; the study of sediment geochemistry to describe past environments. She is now tackling sustainable energy through the study of geothermal energy in the Appalachian foreland.

WILLIAM F. TWENHOFEL MEDAL For a Career of Outstanding Contributions in Sedimentary Geology

Dr. Teresa E. Jordan

Her openness in discussing her work has led to fruitful industry, Government and academic collaborations. She is a stalwart researcher in Chile and Argentina, advising students and established researchers alike. She inspires students and young researchers by her dedication, motivation and desire to learn. She is always willing to share information and ideas with everyone, regardless of their initial understanding, and she has never lost the curiosity and drive to explore new fields. In the words of one, "…Terry is an honest person, open and generous with her knowledge, very welcoming to her colleagues, students and those who work with her in the field. She listens and share ideas, never imposes them. It has been a pleasure and a lesson for me to work with her all these years as a geologist belonging to the Geological Survey of Chile, constituting an enormous contribution to our work."

Through working with Terry, we, and others, have gained a huge appreciation of the importance in placing micro-analyses into a larger framework to fully appreciate the information they provide. It takes scientific curiosity, intelligence, and patience to work with different research disciplines and Terry has done so with tremendous success. Terry Jordan 's stature and integrity as a scientist, combined with her humility and strengths as a mentor and collaborator, set her apart as an outstanding role model for all of us.

In recognition for her important and lasting contributions to stratigraphy and sedimentary basin analysis and their links between surface processes, environments, and the sedimentary record. She has inspired not only the present generation of geoscientists, but those of the future, through her enthusiasm, insight and clarity in writing and presentation.

Biographers: Linda Godfrey and Peter B. Flemings

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SEPM SOCIETY FOR SEDIMENTARY GEOLOGY

The SEPM Society was formed in 1926 to promote the science of sedimentary geology through encouraging scientific research in and disseminating educational information about paleontology, sedimentary petrology and allied disciplines; and for charitable, educational and scientific purposes.



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