Stanford



Stephan Graham

Welton Joseph and Maud L'Anphere Crook Professor of Applied Earth Sciences & by courtesy, of Geophysics & of Energy Science Engineering

Earth & Planetary Sciences

Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Professor, Earth & Planetary Sciences
- Professor (By courtesy), Geophysics
- Professor (By courtesy), Energy Science & Engineering

ADMINISTRATIVE APPOINTMENTS

- Transitional Vice Dean, Stanford Doerr School of Sustainability, Stanford University, (2022-2022)
- Chester Naramore Dean, School of Earth, Energy and Environmental Sciences, Stanford University, (2017-2022)
- Senior Associate Dean for Faculty Affairs, School of Earth, Energy and Environmental Sciences, Stanford University, (2014-2016)
- Associate Dean for Academic Affairs and Diversity, School of Earth Sciences, Stanford University, (2009-2014)
- Department Chair, Geological and Environmental Sciences, Stanford University, (2007-2009)
- Acting Dean, School of Earth Sciences, Stanford University, (2000-2000)
- Associate Dean for Academic Affairs, School of Earth Sciences, Stanford University, (1999-2007)
- Acting Chair, Geological and Environmental Sciences, Stanford University, (1998-1999)
- Associate Chair, Geological and Environmental Sciences Department, Stanford University, (1996-1998)
- Professor of Geological & Environmental Sciences, Stanford University, (1993- present)
- Professor of Petroleum Engineering by courtesy, Stanford University, (1993- present)
- Professor of Geophysics by courtesy, Stanford University, (1989- present)
- Professor of Applied Earth Sciences and Geology, Stanford University, (1989-1993)
- Associate Professor, Applied Earth Sciences and Geology, Stanford University, (1980-1988)
- Development Geologist, Chevron USA, Inc., (1979-1980)
- Exploration Geologist, Chevron USA, Inc., (1977-1979)
- Research Geologist, Exxon Production Research Company, (1976-1977)

HONORS AND AWARDS

- Fellow, Geological Society of America (1982)
- Outstanding Teacher Award, School of Earth Sciences, Stanford University (1987)
- Sproule Award, American Association of Petroleum Geologists (AAPG) (1987)
- Honorary Member, Pacific Section, SEPM (Society for Sedimentary Geol.) (1991)

- Outstanding Educator Award, American Association of Petroleum Geologists, Pacific Section (1995)
- A.I. Levorsen Award, American Association of Petroleum Geologists, Pacific Section (2005)
- Welton Joseph and Maud L'Anphere Crook Professor, Stanford University (2005-present)
- Grover E. Murray Memorial Distinguished Educator Award, American Association of Petroleum Geologists (2007)
- Charles Taylor Fellow, American Association of Petroleum Geologists (2013)
- Richard Owen Award, Indiana University (2014)
- Robert Mitchum Award, European Association of Geoscientists and Engineers (2016)
- Pettijohn Medal, Society for Sedimentary Geology (2017)
- Distinguished Service Award, American Association of Petroleum Geologists (AAPG) (2020)
- Sproule Award (as co-author), American Association of Petroleum Geologists (AAPG) (2021)
- Eugene Fritsche Lifetime Achievement Award, Pacific Section, Society for Sedimentary Geology (2022)
- Honorary Member Award, American Association of Petroleum Geologists (AAPG) (2024)
- Twenhofel Medal, Society for Sedimentary Geology (2025)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Pacific Section SEPM Vice President, Society for Sedimentary Research (2012 - 2012)
- Program Committee, Chapman Conference, American Geophysical Union (2011 - 2011)
- Centennial Field Trip Committee, American Association of Petroleum Geologists (2010 - present)
- Co-convenor, Songliao Scientific Drilling Workshop (2010 - 2010)
- Co-P.I. ICDP Cretaceous Climate Corehole Project, International Continental Scientific Drilling Program (2009 - present)
- Guest editor, Special Issue on Chinese Nonmarine Basins, Basin Research (2009 - 2010)
- Co-Director, Basin and Petroleum Systems Modeling Industrial Affiliates Program, Stanford University (2007 - present)
- Co-chair, Nonmarine Systems Symposium, Beijing (2007 - 2007)
- Faculty Search Committee, Geochronology Faculty Search, GES Dept., Stanford University (2007 - 2009)
- Faculty Search Committee, Energy Resources Engineering Department, Stanford University (2007 - 2007)
- Interim Co-Director, Stanford University Microanalytical Center, Stanford University (2006 - 2009)
- Session convener, Arizona Geological Society Symposium (2006 - present)
- Field Seminar Co-leader, American Association of Petroleum Geologists (2006 - present)
- Co-Chair, Paleobiology Faculty Search Committee, Stanford University (2005 - 2005)
- Search Committee for Vice Provost and Dean of Research and for Dean of Graduate Studies, Stanford University (2005 - 2006)
- Session convenor, Pacific Section, Annual Meeting, American Association of Petroleum Geologists (2005 - 2005)
- Overseas Studies Program Director, Search Committee, Stanford University (2004 - 2005)
- President's Commission on Graduate Education, Stanford University (2004 - 2005)
- Session convenor, Fall Meeting, American Geophysical Union (2004 - 2004)
- Admissions Committee, GES Department 2000 Acting Dean, School of Earth Sciences, Stanford University (2001 - 2003)
- Member, Board of Directors, Circum-Pacific Council (2001 - present)
- Co-Convener, Hedberg Field Research Conference, American Association of Petroleum Geologists (2000 - 2000)
- Field Trip Chairman, Centennial Meeting of the Cordilleran Section, Geological Society of America (2000 - 2000)
- University Committee on Committees, Stanford University (1999 - 2000)
- University Committee on Graduate Studies, Stanford University (1999 - 2000)

- Vice Provost's Undergraduate Advisory Council, Stanford University (1999 - present)
- Faculty Senate, Stanford University (1996 - 2004)
- Earth Sciences Council, Stanford University (1996 - present)
- Chairman, Ocean Margins Initiative Search Committee, Stanford University (1995 - 1995)
- Co-Director, Stanford Program on Deep-Sea Depositional Systems, Stanford University (1991 - present)
- Director, Stanford-China Geosciences Industrial Affiliates Program, Stanford University (1987 - 2003)
- Director, Stanford Petroleum Geology Industrial Affiliates Program, Stanford University (1981 - present)

PROGRAM AFFILIATIONS

- Center for East Asian Studies

PROFESSIONAL EDUCATION

- Ph.D., Geology , Stanford University (1976)
- M.S., Stanford University , Geology (1974)
- B.A., Indiana University , Geology (1972)

LINKS

- Basin Processes and Subsurface Modeling Group: http://bpsm.stanford.edu/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Research

My research centers on the origins, evolution, and energy resources of sedimentary basins, employing multiple methodologies on outcrop and subsurface data sets. A principal research focus is the characterization of deep-marine siliciclastic coarse-grained sediment accumulations (submarine fans). A second, long-running research effort lies in the tectonic evolution of eastern Asia (China and Mongolia), as reflected in the fill of sedimentary basins. A third principal research area is the relationship between mountain building and climate, especially in the western U.S. and Asia, conducted in collaboration with Professor Page Chamberlain.

Teaching

I co-teach undergraduate courses in sedimentary geology and energy resources and policy. My graduate courses include sedimentary basin analysis, petroleum geology, petroleum reservoir characterization and modeling, and interpretation of reflection seismic data.

Professional Activities

Dean, School of Earth, Energy and Environmental Sciences (2017-2022); Chair, Department of Geological and Environmental Sciences (2007); Grover E. Murray Memorial Distinguished Educator Award, American Association of Petroleum Geologists (2007); Circum-Pacific Council Board of Directors (2001-present); associate dean for academic affairs, Stanford School of Earth Sciences (1999-2007); Outstanding Educator Award, Pacific Section, American Association of Petroleum Geologists (1995); associate editor, Journal of Sedimentary Research (1994-97) Councilor of Sedimentology, SEPM (Society for Sedimentary Geology) (1991-93); honorary member, Pacific Section, SEPM (Society for Sedimentary Geology) (1991); Sproule Award, American Association of Petroleum Geologists (1987); associate editor, American Association of Petroleum Geologists Bulletin (1983-89); fellow, Geological Society of America (1982); president Pacific Section, Society of Economic Paleontologists and Mineralogists (1982)

PROJECTS

- Continental Scientific Drilling Project on the Cretaceous Songliao Basin: Continuous high-resolution terrestrial archives and greenhouse climate change - Stanford University, China University of Geosciences, Petrochina, University of Wisconsin, Northwestern University (2008 - 2016)
- Investigation of the Lower Puchkirchen Formation, Molasse Basin, Austria - Stanford University, Rohoel Aufsuchungs Gesellschaft (2015 - 2017)
- Field study of the Austral-Magellanes basin, Patagonia - Stanford University (2000 - 2018)
- Field study of the East Coast basin, New Zealand - Stanford University, GNS New Zealand (2012 - 2016)
- Field study of the Taranaki basin, New Zealand - Stanford University, GNS New Zealand (2012 - 2016)
- Field study of the Marlborough basin, New Zealand - Stanford University, GNS New Zealand (2014 - 2019)
- Basin and petroleum system modeling of the Magdalena basin, Colombia - Stanford University, Ecopetrol (2014 - 2019)
- Depositional model for the deep-water Godavari continental margin, India - Stanford University, Reliance Industries Limited (1959 - 2015)
- Understanding northern Central Asian surface uplift and erosion history and constraints on the tectonic and climatic evolution - Stanford University, UC Berkeley, University of Michigan (2014 - 2019)

Teaching

COURSES

2025-26

- Sedimentary Basins: EPS 251 (Aut)

2023-24

- Introduction to Geology: EARTHSYS 11, EPS 1 (Spr)
- Sedimentary Basins: EPS 251 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Hunter Olson, Eliane Petersohn

Doctoral Dissertation Advisor (AC)

Simone Salazar

Doctoral (Program)

Simone Salazar

Publications

PUBLICATIONS

- **Stratigraphic architecture and controls on a convergent margin deepwater progradational system: Insights from the Ngamring Formation, Xigaze forearc basin, southern Tibet** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Hao, M., Malkowski, M. A., Graham, S. A., Wang, L., Wang, C.
  2026
- **The concordant yet diachronous surfaces of the Gabilan Highlands, central California, USA** *GEOLOGY*
  Hilley, G., Steelquist, A., Graham, S.
  2026
- **The concept of a Blind Hydrogen System** *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*
  Awosiji, V., Graham, S., Mukerji, T.
  2025; 158

- **Terrebonne Basin, Gulf of Mexico gas hydrate resource evaluation and 3-D modeling of basin-scale sedimentation, salt tectonics, and hydrate system evolution since the early Miocene** *MARINE AND PETROLEUM GEOLOGY*
  Dafov, L. N., Burton, Z. F. M., Haines, S. S., Scheirer, A., Masurek, N., Boswell, R., Frye, M., Seol, Y., Graham, S. A.
  2025; 176

- **Detrital zircon provenance links between outcrop and subsurface Rocas Verdes and Magallanes-Austral Basins, Patagonia** *GEOSPHERE*
  Almonte, N., Malkowski, M. A., Dobbs, S. C., Graham, S. A.
  2024

- **Global Eocene-Oligocene unconformity in clastic sedimentary basins** *EARTH-SCIENCE REVIEWS*
  Burton, Z. F. M., Mchargue, T. R., Graham, S. A.
  2024; 258

- **Detrital isotopic record of a retreating accretionary orogen: An example from the Patagonian Andes** *GEOLOGY*
  Rey, F. M., Malkowski, M. A., Fosdick, J. C., Dobbs, S. C., Calderon, M., Ghiglione, M. C., Graham, S. A.
  2024

- **From foredeep to orogenic wedge-top: The Cretaceous Songliao retroforeland basin, China** *GEOSCIENCE FRONTIERS*
  Feng, Z., Graham, S. A.
  2023; 14 (3)

- **Sediment gravity flow frequency offshore central California diminished significantly following the Last Glacial Maximum** *FRONTIERS IN MARINE SCIENCE*
  Dobbs, S. C. C., Paull, C. K. K., Lundsten, E. M. M., Gwiazda, R., Caress, D. W. W., McGann, M., Coholich, M. M. M., Walton, M. A. L., Nieminski, N. M. M., McHargue, T., Graham, S. A. A.
  2023; 10

- **Peak Cenozoic warmth enabled deep-sea sand deposition.** *Scientific reports*
  Burton, Z. F., McHargue, T., Kremer, C. H., Bloch, R. B., Gooley, J. T., Jaikla, C., Harrington, J., Graham, S. A.
  2023; 13 (1): 1276

- **Depositional Controls on Detrital Zircon Provenance: An Example From Upper Cretaceous Strata, Southern Patagonia** *FRONTIERS IN EARTH SCIENCE*
  Dobbs, S. C., Malkowski, M. A., Schwartz, T. M., Sickmann, Z. T., Graham, S. A.
  2022; 10

- **NEW IDRIA SERPENTINITE PROTRUSION, DIABLO RANGE, CALIFORNIA: FROM UPPER MANTLE TO THE SURFACE** *AMERICAN JOURNAL OF SCIENCE*
  Coleman, R. G., Gooley, J. T., Gregory, R. T., Graham, S. A.
  2022; 322 (4): 533-560

- **Predicting Off-Fault Deformation From Experimental Strike-Slip Fault Images Using Convolutional Neural Networks** *GEOPHYSICAL RESEARCH LETTERS*
  Chaipornkaew, L., Elston, H., Cooke, M., Mukerji, T., Graham, S. A.
  2022; 49 (2)

- **Reconciling along-strike disparity in slip displacement of the San Andreas fault, central California, USA** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Gooley, J. T., Sharman, G. R., Graham, S. A.
  2021; 133 (7-8): 1441-1464

- **Terrestrial climate in mid-latitude East Asia from the latest Cretaceous to the earliest Paleogene: A multiproxy record from the Songliao Basin in northeastern China** *EARTH-SCIENCE REVIEWS*
  Gao, Y., Ibarra, D. E., Rugenstein, J., Chen, J., Kukla, T., Methner, K., Gao, Y., Huang, H., Lin, Z., Zhang, L., Xi, D., Wu, H., Carroll, et al
  2021; 216

- **Tectonic Uplift Destabilizes Subsea Gas Hydrate: A Model Example From Hikurangi Margin, New Zealand** *GEOPHYSICAL RESEARCH LETTERS*
  Burton, Z. F. M., Kroeger, K. F., Scheirer, A., Seol, Y., Burgreen-Chan, B., Graham, S. A.
  2020; 47 (7)

- **Identification of genetically distinct petroleum tribes in the Middle Magdalena Valley, Colombia** *AAPG BULLETIN*
  Thompson-Butler, W., Peters, K. E., Magoon, L. B., Scheirer, A., Moldowan, J., Orlando Blanco, V., Eugenio Gonzalez, R., Graham, S. A., Zumberge, J. E., Wavrek, D. A.
  2019; 103 (12): 3003–34

- **Using provenance analysis in an Anthropocene natural laboratory** *QUATERNARY SCIENCE REVIEWS*
  Sickmann, Z. T., Chheda, T. D., Capaldi, T. N., Thomson, K. D., Paull, C. K., Graham, S. A.
  2019; 221

- **Revised chronostratigraphic framework for the Cretaceous Magallanes-Austral Basin, Ultima Esperanza Province, Chile** *JOURNAL OF SOUTH AMERICAN EARTH SCIENCES*
  Daniels, B. G., Hubbard, S. M., Romans, B. W., Malkowski, M. A., Matthews, W. A., Bernhardt, A., Kaempfe, S. A., Jobe, Z. R., Fosdick, J. C., Schwartz, T. M., Fildani, A., Graham, S. A.
  2019; 94

- **Interpreting large detrital geochronology data sets in retroarc foreland basins: An example from the Magallanes-Austral Basin, southernmost Patagonia** *LITHOSPHERE*
  Sickmann, Z. T., Schwartz, T. M., Malkowski, M. A., Dobbs, S. C., Graham, S. A.
  2019; 11 (5): 620–42

- **Paleogene topographic and climatic evolution of the Northern Rocky Mountains from integrated sedimentary and isotopic data** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Schwartz, T. M., Methner, K., Mulch, A., Graham, S. A., Chamberlain, C.
  2019; 131 (7-8): 1203–23

- **The role of avulsion and splay development in deep-water channel systems: Sedimentology, architecture, and evolution of the deep-water Pliocene Godavari "A" channel complex, India** *MARINE AND PETROLEUM GEOLOGY*
  Lowe, D. R., Graham, S. A., Malkowski, M. A., Das, B.
  2019; 105: 81–99

- **Integrating strike-slip tectonism with three-dimensional basin and petroleum system analysis of the Salinas Basin, California** *AAPG BULLETIN*
  Menotti, T., Scheirer, A., Meisling, K., Graham, S. A.
  2019; 103 (6): 1443–72

- **Interpretation of source rock depositional environment and age from seep oil, east coast of New Zealand** *INTERNATIONAL JOURNAL OF EARTH SCIENCES*
  Burton, Z. F. M., Moldowan, J., Magoon, L. B., Sykes, R., Graham, S. A.
  2019; 108 (4): 1079–91

- **Interpretation of source rock depositional environment and age from seep oil, east coast of New Zealand (vol 108, pg 1079, 2019)** *INTERNATIONAL JOURNAL OF EARTH SCIENCES*
  Burton, Z. F. M., Moldowan, J., Magoon, L. B., Sykes, R., Graham, S. A.
  2019; 108 (4): 1093

- **Dilution and propagation of provenance trends in sand and mud: Geochemistry and detrital zircon geochronology of modern sediment from central California (U.S.A.)** *American Journal of Science*
  Malkowski, M.
  2019

- **The source is in the sink: Deep-water deposition by a submarine volcanic arc, Taranaki Basin, New Zealand** *SEDIMENTOLOGY*
  Shumaker, L. E., Sharman, G. R., King, P. R., Graham, S. A.
  2018; 65 (7): 2506–30

- **Refining stratigraphy and tectonic history using detrital zircon maximum depositional age: an example from the Cerro Fortaleza Formation, Austral Basin, southern Patagonia** *BASIN RESEARCH*
  Sickmann, Z. T., Schwartz, T. M., Graham, S. A.
  2018; 30 (4): 708–29

- **The role of calcareous and shaly source rocks in the composition of petroleum expelled from the Triassic Shublik Formation, Alaska North Slope** *ORGANIC GEOCHEMISTRY*

Yurchenko, I. A., Moldowan, J., Peters, K. E., Magoon, L. B., Graham, S. A.
2018; 122: 52–67

- **Integrating statistical rock physics and pressure and thermal history modeling to map reservoir lithofacies in the deepwater Gulf of Mexico** *GEOPHYSICS*
  Alkawai, W. H., Mukerji, T., Scheirer, A., Graham, S. A.
  2018; 83 (4): IM15–IM28
- **Sediment routing evolution in the North Alpine Foreland Basin, Austria: interplay of transverse and longitudinal sediment dispersal** *BASIN RESEARCH*
  Sharman, G. R., Hubbard, S. M., Covault, J. A., Hinsch, R., Linzer, H., Graham, S. A.
  2018; 30 (3): 426–47
- **Transversely-sourced mass-transport deposits and stratigraphic evolution of a foreland submarine channel system: Deep-water tertiary strata of the Austrian Molasse Basin** *MARINE AND PETROLEUM GEOLOGY*
  Kremer, C. H., McHargue, T., Scheucher, L., Graham, S. A.
  2018; 92: 1–19
- **Combining seismic reservoir characterization workflows with basin modeling in the deepwater Gulf of Mexico Mississippi Canyon area**
  AlKawai, W. H., Mukerji, T., Scheirer, A., Graham, S. A.
  AMER ASSOC PETROLEUM GEOLOGIST.2018: 629–52
- **Source rock heterogeneity and migrated hydrocarbons in the Triassic Shublik Formation and their implication for unconventional resource evaluation in Arctic Alaska** *MARINE AND PETROLEUM GEOLOGY*
  Yurchenko, I. A., Moldowan, J., Peters, K. E., Magoon, L. B., Graham, S. A.
  2018; 92: 932–52
- **Petroleum system modeling of the East Coast Basin, Hawke Bay, New Zealand**
  Burgreen-Chan, B., Graham, S. A.
  AMER ASSOC PETROLEUM GEOLOGIST.2018: 587–612
- **Unraveling Petroleum Degradation, Maturity, and Mixing and Addressing Impact on Petroleum Prospectivity: Insights from Frontier Exploration Regions in New Zealand** *ENERGY & FUELS*
  Burton, Z. F. M., Moldowan, J., Sykes, R., Graham, S. A.
  2018; 32 (2): 1287–96
- **Evaluating Late Cretaceous OAEs and the influence of marine incursions on organic carbon burial in an expansive East Asian paleo-lake** *Earth and Planetary Science Letters*
  Jones, M. M., Ibarra, D. E., Gao, Y., Sageman, B. B., Selby, D., Chamberlain, C., Graham, S. A.
  2018; 484: 41-52
- **Down-slope facies variability within deep-water channel systems: Insights from the Upper Cretaceous Cerro Toro Formation, southern Patagonia** *Sedimentology*
  Malkowski, M. A., Jobe, Z. R., Sharman, G. R., Graham, S. A.
  2018
- **Using detrital zircon U-Pb ages to calculate Late Cretaceous sedimentation rates in the Magallanes-Austral basin, Patagonia** *BASIN RESEARCH*
  Schwartz, T. M., Fosdick, J. C., Graham, S. A.
  2017; 29 (6): 725–46
- **Evolution of submarine gullies on a prograding slope: Insights from 3D seismic reflection data** *MARINE GEOLOGY*
  Shumaker, L. E., Jobe, Z. R., Graham, S. A.
  2017; 393: 35–46
- **Depositional history and provenance of Paleogene strata in the Sage Creek basin, southwestern Montana** *GEOSPHERE*
  Schwartz, T. M., Graham, S. A.
  2017; 13 (4): 1285–1309
- **Submarine mass failure within the deltaic Domengine Formation (Eocene), California (USA)** *GEOSPHERE*

Sharman, G. R., Schwartz, T. M., Shumaker, L. E., Trigg, C. R., Nieminski, N. M., Sickmann, Z. T., Malkowski, M. A., Hourigan, J. K., Schulein, B. J., Graham, S. A.
2017; 13 (3): 950–73

- **Stratigraphic and provenance variations in the early evolution of the Magallanes-Austral foreland basin: Implications for the role of longitudinal versus transverse sediment dispersal during arc-continent collision** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Malkowski, M. A., Schwartz, T. M., Sharman, G. R., Sickmann, Z. T., Graham, S. A.
  2017; 129 (3-4): 349-371
- **MODELING STRATIGRAPHIC ARCHITECTURE USING SMALL UNMANNED AERIAL VEHICLES AND PHOTOGRAMMETRY: EXAMPLES FROM THE MIOCENE EAST COAST BASIN, NEW ZEALAND** *JOURNAL OF SEDIMENTARY RESEARCH*
  Nieminski, N. M., Graham, S. A.
  2017; 87 (2): 126-132
- **Characterisation and diachronous initiation of coarse clastic deposition in the Magallanes-Austral foreland basin, Patagonian Andes** *BASIN RESEARCH*
  Malkowski, M. A., Sharman, G. R., Graham, S. A., Fildani, A.
  2017; 29 (FEB): 298-326
- **DETRITAL-ZIRCON MIXING AND PARTITIONING IN FLUVIAL TO DEEP MARINE SYSTEMS, CENTRAL CALIFORNIA, USA** *JOURNAL OF SEDIMENTARY RESEARCH*
  Sickmann, Z. T., Paull, C. K., Graham, S. A.
  2016; 86 (11): 1298-1307
- **Rapid Middle Eocene temperature change in western North America** *EARTH AND PLANETARY SCIENCE LETTERS*
  Methner, K., Mulch, A., Fiebig, J., Wacker, U., Gerdes, A., Graham, S. A., Chamberlain, C. P.
  2016; 450: 132-139
- **Basin and petroleum system modelling of the East Coast Basin, New Zealand: a test of overpressure scenarios in a convergent margin** *BASIN RESEARCH*
  Burgreen-Chan, B., Meisling, K. E., Graham, S.
  2016; 28 (4): 536-567
- **Refined depositional history and dating of the Tongaporutuan reference section, north Taranaki, New Zealand: new volcanic ash U-Pb zircon ages, biostratigraphy and sedimentation rates** *NEW ZEALAND JOURNAL OF GEOLOGY AND GEOPHYSICS*
  Maier, K. L., Crundwell, M. P., Coble, M. A., King, P. R., Graham, S. A.
  2016; 59 (2): 313-329
- **A hot and high Eocene Sierra Nevada** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Mix, H. T., Ibarra, D. E., Mulch, A., Graham, S. A., Chamberlain, C. P.
  2016; 128 (3-4): 531-542
- **Unzipping the Patagonian Andes-Long-lived influence of rifting history on foreland basin evolution** *LITHOSPHERE*
  Malkowski, M. A., Grove, M., Graham, S. A.
  2016; 8 (1): 23-28
- **Four Cordilleran paleorivers that connected Sevier thrust zones in Idaho to depocenters in California, Washington, Wyoming, and, indirectly, Alaska** *GEOLOGY*
  Dumitru, T. A., Elder, W. P., Hourigan, J. K., Chapman, A. D., Graham, S. A., Wakabayashi, J.
  2016; 44 (1): 75-78
- **Constraining basin thermal history and petroleum generation using paleoclimate data in the Piceance Basin, Colorado** *Basin Research*
  Tong, Y., Ibarra, D. E., Caves, J. K., Mukerji, T., Graham, S. A.
  2016
- **Mid-latitude terrestrial climate of East Asia linked to global climate in the Late Cretaceous: REPLY** *GEOLOGY*
  Gao, Y., Ibarra, D. E., Caves, J. K., Wang, C., Chamberlain, C. P., Graham, S. A., Wu, H.
  2016; 44 (2): e379
- **Role of the westerlies in Central Asia climate over the Cenozoic** *EARTH AND PLANETARY SCIENCE LETTERS*
  Caves, J. K., Winnick, M. J., Graham, S. A., Sjostrom, D. J., Mulch, A., Chamberlain, C. P.

2015; 428: 33-43

- **Detrital thermochronologic record of burial heating and sediment recycling in the Magallanes foreland basin, Patagonian Andes** *BASIN RESEARCH*
  Fosdick, J. C., Grove, M., Graham, S. A., Hourigan, J. K., Lovera, O., Romans, B. W.
  2015; 27 (4): 546-572
- **Cyclical processes in the North American Cordilleran orogenic system** *GEOLOGY*
  DeCelles, P. G., Graham, S. A.
  2015; 43 (6): 499-502
- **Stratigraphic architecture of a tide-influenced shelf-edge delta, Upper Cretaceous Dorotea Formation, Magallanes-Austral Basin, Patagonia** *SEDIMENTOLOGY*
  Schwartz, T. M., Graham, S. A.
  2015; 62 (4): 1039-1077
- **Subsurface evidence for late Mesozoic extension in western Mongolia: tectonic and petroleum systems implications** *BASIN RESEARCH*
  Johnson, C. L., Constenius, K. C., Graham, S. A., Mackey, G., Menotti, T., Payton, A., Tully, J.
  2015; 27 (3): 272-294
- **Mid-latitude terrestrial climate of East Asia linked to global climate in the Late Cretaceous** *GEOLOGY*
  Gao, Y., Ibarra, D. E., Wang, C., Caves, J. K., Chamberlain, C. P., Graham, S. A., Wu, H.
  2015; 43 (4): 287-290
- **RAPID CHANGE IN HIGH-ELEVATION PRECIPITATION PATTERNS OF WESTERN NORTH AMERICA DURING THE MIDDLE EOCENE CLIMATIC OPTIMUM (MECO)** *AMERICAN JOURNAL OF SCIENCE*
  Mulch, A., CHAMBERLAIN, C. P., Cosca, M. A., Teyssier, C., Methner, K., Hren, M. T., Graham, S. A.
  2015; 315 (4): 317-336
- **Spatial patterns of deformation and paleoslope estimation within the marginal and central portions of a basin-floor mass-transport deposit, Taranaki Basin, New Zealand** *GEOSPHERE*
  Sharman, G. R., Graham, S. A., Masalimova, L. U., Shumaker, L. E., King, P. R.
  2015; 11 (2): 266-306
- **Detrital zircon provenance of the Late Cretaceous-Eocene California forearc: Influence of Laramide low-angle subduction on sediment dispersal and paleogeography** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Sharman, G. R., Graham, S. A., Grove, M., Kimbrough, D. L., Wright, J. E.
  2015; 127 (1-2): 38-60
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