

Brian W. Romans

Professor
Virginia Tech Geosciences
4044 Derring Hall (2043A)
Blacksburg, VA 24061

Email: romans@vt.edu
Web page: geos.vt.edu/romans/
Research page: vtsedsystems.org/

Education

Ph.D. Geological and Environmental Sciences, Stanford University, 2008

M.S. Geology and Geological Engineering, Colorado School of Mines, 2003

B.A. Geology, State University of New York at Buffalo, 1997

Employment

Professor, Dept. of Geosciences, Virginia Tech, 2023-present

Associate Professor, Dept. of Geosciences, Virginia Tech, 2017-2023

Assistant Professor, Dept. of Geosciences, Virginia Tech, 2011-2017

Research Scientist, Chevron Energy Technology Co., 2008-2011

Research and Teaching Assistant, Dept. of Geological and Environmental Sciences, Stanford University, 2003-2008

Research Assistant (volunteer), U.S. Geological Survey, Coastal and Marine Division, Menlo Park, CA, 2003-2007

Research and Teaching Assistant, Dept. of Geology and Geological Engineering, Colorado School of Mines, 2000-2003

Awards and Honors

International Ocean Discovery Program (IODP) Distinguished Lecturer, 2018-2019

James Lee Wilson Award for Excellence in Sedimentary Geology by an Early-Career Scientist, Society for Sedimentary Geology (SEPM), 2014

A.I. Levorsen Memorial Award, Best Paper (co-author), 83rd Annual Pacific Section AAPG, Ventura, CA, 2009

Recipient of USGS-Stanford Fellowship, 2006-2007

McGee Fund Grant, Dept. of Geological and Environmental Sciences, Stanford University, 2006

AAPG Grants-in-Aid, Classen Family Grant, 2005

Martin Van Couvering Award, Pacific Section AAPG, 2005

Research Funding

Pending

U.S. Science Support Program for International Ocean Discovery Program (IODP), *Expression of Pleistocene glacial-interglacial cycles in a continental slope channel-levee system, NW Greenland margin, IODP Sites U1603 and U1604*; Post-expedition award associated with IODP Expedition 400; \$20,000, 2024-2025

Active

United States Science Support Program (USSSP) - funding agency for participation associated with International Ocean Discovery Program (IODP) expeditions, *Expedition 400 NW Greenland Glaciated Margin*; \$51,895, 2023-2024

Industry Consortium, *Chile Slope Systems Phase 4: Models and Predictions of Slope Reservoirs*, multi-institution research program with University of Calgary and Colorado State University; \$136,000, 2023-2025

National Science Foundation - Office of Polar Programs, Antarctic Earth Sciences (NSF 19-595), lead co-PI, *Collaborative Research: Orbital-scale variability of the West Antarctic Ice Sheet and the formation of bottom water in the Ross Sea during the Pliocene-Pleistocene*; \$448,500 total with \$203,475 (45%) to Romans, 2020-2024

Past

U.S. Science Support Program for International Ocean Discovery Program (IODP), *Sedimentary signal of changes in the hydrological cycle in near-vent deposits from the Paleocene-Eocene Thermal Maximum (PETM) (IODP Sites U1567, U1568 and U1569)*; Post-expedition award associated with IODP Expedition 396; \$18,000, 2022-2023 (note: funding for Ph.D. advisee Natalia Varela)

Industry Consortium, *Chile Slope Systems Phase 3: Architectural Analysis and Modeling of Slope Reservoirs*, multi-institution research program with University of Calgary and Colorado State University; funding from six petroleum company sponsors totals \$783,000 with \$199,691 to Romans (26%), 2019-2023

United States Science Support Program (USSSP) - funding agency for participation and post-expedition awards associated with International Ocean Discovery Program (IODP) expeditions, *Expedition 396 Participation*; \$11,577, 2021-2022 (note: funding for Ph.D. advisee Natalia Varela)

U.S. Science Support Program for International Ocean Discovery Program (IODP), *Pliocene-Pleistocene turbidity current history in a conduit of Antarctic Bottom Water (AABW) formation, Ross Sea, IODP Sites U1524 and U1525*; Post-expedition award associated with IODP Expedition 374; \$18,000, 2018-2020

American Chemical Society-Petroleum Research Fund-New Directions grant (57811-ND8): *Do Muds Sort? Experimental Test of Hypothesis Key to Understanding Marine Bottom Currents*, \$110,000 total with \$55,000 to Romans and \$55,000 to Dr. Kyle Strom (Dept. of Civil and Environmental Engineering, Virginia Tech), 2017-2020

Post-doctoral Fellowship, *Source-to-Sink Dynamics of Large Sediment Routing Systems With and Without Continental Ice Sheets: Value of Detrital Zircons for Sediment Routing System Characterization and Prediction*, funding from Statoil USA; \$159,000 over two years, 2017-2019

Industry Consortium, *Chile Slope Systems Phase 2: Architectural Analysis and Modeling of Outcropping Slope Deposits, Magallanes Basin, Chile*, multi-institution research program with University of Calgary and Colorado State University; funding from eight petroleum company sponsors totals \$645,500 with \$199,690 to Romans, 2016-2019

International Ocean Discovery Program (IODP) Expedition 374, *Ross Sea West Antarctic Ice Sheet History*; selected to participate as shipboard scientist (physical properties and downhole measurements specialist); received \$49,169 for two-month expedition (January-February 2018)

Industry Consortium, *Chile Slope Systems Phase 1: Architectural Analysis and Modeling of Outcropping Slope Deposits, Magallanes Basin, Chile*, multi-institution research program with University of Calgary and Colorado State University; funding from 12 petroleum company sponsors totals \$1,150,000 with \$260,000 to Romans over three years, 2013-2016

American Chemical Society-Petroleum Research Fund-Doctoral New Investigator grant (53553-DN18): *Detecting Signals of Sediment Supply in the Stratigraphic Architecture of an Outcropping Pleistocene Delta Complex*, \$100,000, 2013-2016

Consortium for Ocean Leadership, Post-Expedition Award: *Late Eocene to early Miocene (35-20 Ma) history of Deep Western Boundary Current activity in the western North Atlantic*; \$15,000, 2013-2015

PRIME Lab (Purdue University) Seed Grant for sample preparation and analysis related to novel cosmogenic radionuclide application; \$10,000, 2014

Integrated Ocean Drilling Program (IODP): Sailed as shipboard scientist on IODP Expedition 342 *Paleogene Newfoundland Drifts*, (\$38,314 of salary+expenses for two-month expedition); Total cost of expedition approx. \$12 million, 2012

Publications

Citation Statistics (November 2023):

GoogleScholar: citations=4357; h-index=32

Refereed Journal Articles

underline = student/post-doc advisee; * = *Chile Slope Systems* student/post-doc at other institution

Kaempfe-Droguett, S.A., **Romans, B.W.**, Hubbard, S.M., Daniels, B.G., and Stright, L., revised version in review, Stacking pattern transition caused by submarine channel inception and internal levee development, Tres Pasos Formation, southern Chile: *Sedimentology*

- (52) *Englert, R.G., Hubbard, S.M., **Romans, B.W.**, Kaempfe, S.A., *Bell, D., *Nesbit, P.R., and Stright, L., accepted, Flow dynamics as Froude-supercritical turbidity currents encounter meter-scale slope minibasin topography: *The Depositional Record*
- (51) Parent, A.M., Chilton, K.D., van Peer, T.E., Bohaty, S.M., Spray, J.F., Scher, H.D., Wilson, P.A., and **Romans, B.W.**, accepted, Eocene-Oligocene intensification of the Deep Western Boundary Current in the North Atlantic Ocean: *Paleoceanography and Paleoclimatology*
- (50) Koehn, L.W., **Romans, B.W.**, Pollyea, R.M., 2023, Assessing reservoir performance for geologic carbon sequestration in offshore saline reservoirs: *Energy Advances*, 10.1039/D3YA00317E
- (49) Stevens Goddard, A.L., Fosdick, J.C., Calderon, M., Ghiglione, M.C., VanderLeest, R.A., and **Romans, B.W.**, 2023, Thermochronological evidence for Eocene deformation in the southern Patagonian Andes: Linking orogenesis along the Patagonian orocline: *Tectonics*, 10.1029/2022TC007677
- (48) Mason, C.C., **Romans, B.W.**, Patterson, M., Stockli, D.F., and Fildani, A., 2022, Cycles of Andean mountain building archived in the Amazon Fan: *Nature Communications*, 10.1038/s41467-022-34561-6

- (47) *Hage, S., **Romans, B.W.**, *Peploe, T.G.E., Poyatos-More, M., Ardakani, O.H., *Bell, D., *Englert, R.G., Kaempfe, S.A., *Nesbit, P.R., Sherstan, G., Synnott, D.P., and Hubbard, S.M., 2022, High rates of organic carbon burial in submarine deltas maintained on geological timescales: *Nature Geoscience*, 10.1038/s41561-022-01048-4
- (46) VanderLeest, R.A., Fosdick, J.C., Malkowski, M.A., **Romans, B.W.**, Ghiglione, M.C., Schwartz, T.M., and Sickmann, Z.T., 2022, Tectonic subsidence modeling of diachronous transition from backarc to retroarc basin development and uplift during Cordilleran orogenesis, Patagonian-Fuegian Andes: *Tectonics*, 10.1029/2021TC006891
- (45) Culp, J., Parent, A.M., Abolfazli, E., Strom, K., and **Romans, B.W.**, 2021, Advective sorting of silt by currents: A laboratory study: *Sedimentology*, doi: 10.1111/sed.12889
- (44) Tofelde, S., Bernhardt, A., Guerit, L., and **Romans, B.W.**, 2021, Times associated with source-to-sink propagation of environmental signals during landscape transience: *Frontiers in Earth Science*, doi: 10.3389/feart.2021.628315
- (43) *Meirovitz, C.D., Stright, L., Hubbard, S.M., and **Romans, B.W.**, 2020, The influence of inter- and intra-channel architecture on deep-water reservoir performance: *Petroleum Geoscience*, doi: 10.1144/petgeo2020-005
- (42) Hubbard, S.M., Jobe, Z.R., **Romans, B.W.**, Covault, J.A., Sylvester, Z., and Fildani, A., 2020, The stratigraphic evolution of a submarine channel: Linking seafloor dynamics to depositional products: *Journal of Sedimentary Research*, 90, 673-676, doi: 10.2110/jsr.2020.36
- (41) Auchter, N.C., **Romans, B.W.**, Hubbard, S.M., *Daniels, B.G., Scher, H.D., and Buckley, W., 2020, Intra-basinal sediment recycling from detrital strontium isotope stratigraphy: *Geology*, doi: 10.1130/G47594.1
- (40) *Bauer, D.B., Hubbard, S.M., Covault, J.A., and **Romans, B.W.**, 2020, Inherited depositional topography control on shelf-margin oversteepening, readjustment, and coarse-grained sediment delivery to deep water, Magallanes Basin, Chile: *Frontiers in Earth Science*, doi: 10.3389/feart.2019.00358
- (39) *Jackson, A., Stright, L., Hubbard, S.M., and **Romans, B.W.**, 2019, Static connectivity of stacked deep-water channel elements constrained by high-resolution digital outcrop models: *AAPG Bulletin*, 103, 2943-2973, doi: 10.1306/03061917346
- (38) Spray, J.F., Bohaty, S.M., Davies, A.D., Bailey, I., **Romans, B.W.**, Cooper, M.J., Milton, J.A., and Wilson, P.A., 2019, North Atlantic evidence for a unipolar icehouse climate state at the Eocene-Oligocene Transition: *Paleoceanography and Paleoclimatology*, 34, 1124-1138, doi: 10.1029/2019PA003563
- (37) *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., and Graham, S.A., 2019, Revised chronostratigraphic framework for the Cretaceous Magallanes-Austral Basin, Ultima Esperanza, Chile: *Journal of South American Earth Sciences*, 94, doi: 10.1016/j.jsames.2019.05.025
- (36) Mason, C.C., **Romans, B.W.**, Stockli, D.F., Mapes, R.W., and Fildani, A., 2019, Detrital zircons reveal sea-level and hydroclimate controls on Amazon River to deep-sea fan sediment transfer: *Geology*, doi: 10.1130/G45852.1
- (35) Van Grinsven, M., Marsaglia, K.M., and **Romans, B.W.**, 2019, Sand provenance from source-to-sink in the Santa Monica Basin, California Borderlands: Significance of Calleguas Creek input: *SEPM Special Publication No. 110: From the Mountains to the Abyss: The California Borderland as an Archive of Southern California Geologic Evolution*, SEPM Special Publication No. 110, p. 102-116, doi: 10.2110/sepm.sp.110.06

- (34) Hodgson, D.M., Bernhardt, A., Clare, M.A., Da Silva, A.C., Fosdick, J.C., Mauz, B., Midtkandal, I., Owen, A., and **Romans, B.W.**, 2018, Grand challenges (and great opportunities) in sedimentology, stratigraphy, and diagenesis: *Frontiers in Earth Science*, doi: 10.3389/feart.2018.001736
- (33) Mason, C.C., and **Romans, B.W.**, 2018, Climate-driven unsteady denudation and sediment flux in a high-relief unglaciated catchment-fan using ^{26}Al and ^{10}Be : Panamint Valley, California: *Earth and Planetary Science Letters*, 492, 130-143, doi: 10.1016/j.epsl.2018.03.056
- (32) Fildani, A., Clark, J., Covault, J.A., Power, B., **Romans, B.W.**, and Aiello, I.W., 2018, Muddy sand and sandy mud on the distal Mississippi Fan: Implications for lobe depositional processes: *Geosphere*, doi: 10.1130/GES01580.1
- (31) Jobe, Z.R., Howes, N., **Romans, B.W.**, and Covault, J.A., 2018, Volume and recurrence of submarine-fan-building turbidity currents: *The Depositional Record*, doi: 10.1002/dep2.42
- (30) *Daniels, B.G., Auchter, N.C., Hubbard, S.M., **Romans, B.W.**, Matthews, W.A., and Stright, L., 2018, Timing of deep-water slope evolution constrained by large-n detrital and volcanic ash zircon geochronology, Cretaceous Magallanes Basin, Chile: *GSA Bulletin* doi: 10.1130/B31757.1
- (29) Boyle, P.R., **Romans, B.W.**, Tucholke, B.E., Norris, R.D., Swift, S.A., and Sexton, P.F., 2017, Cenozoic North Atlantic deep circulation history recorded in contourite drifts, offshore Newfoundland, Canada: *Marine Geology*, 385, 185-203
- (28) Eriksson, K.A. and **Romans, B.W.**, 2017, Denudation rates of a subequatorial orogenic belt based on estimates of sediment yields: Evidence from the Paleozoic Appalachian Basin, USA: *Basin Research*, 29, 2-15, 10.1111/bre.12162
- (27) *Reimchen, A., Hubbard, S.M., Stright, L., and **Romans, B.W.**, 2016, Using seafloor morphometrics to constrain stratigraphic models of sinuous submarine channel systems: *Marine and Petroleum Geology*, 77, 92-115
- (26) Auchter, N.C., **Romans, B.W.**, and Hubbard, S.M., 2016, Influence of deposit architecture on intrastratal deformation, slope deposits of Tres Pasos Formation, Chile: *Sedimentary Geology*, 341, 13-26
- (25) **Romans, B.W.**, Castelltort, S., Covault, J.A., Fildani, A., and Walsh, J.P., 2016, Environmental signal propagation in sedimentary systems across timescales: *Earth-Science Reviews*, 152, 7-29
- (24) *Pemberton, E.A.L., Hubbard, S.M., Fildani, A., **Romans, B.W.**, and Stright, L., 2016, The stratigraphic expression of decreasing confinement along a deep-water sediment routing system: Outcrop example from southern Chile: *Geosphere*, 12, 114-134
- (23) Fosdick, J.C., Grove, M., Graham, S.A., Hourigan, J.K., Lovera, O., and **Romans, B.W.**, 2015, Detrital thermochronologic record of burial heating and sediment recycling in the Magallanes foreland basin, Patagonian Andes: *Basin Research*, 27, 546-572
- (22) Hubbard, S.M., Covault, J.A., Fildani, A., and **Romans, B.W.**, 2014, Sediment transfer and deposition in slope channels: Deciphering the record of enigmatic deep-sea processes from outcrop: *Geological Society of America Bulletin*, doi: 10.1130/B30996.1
- (21) Fildani, A., Hubbard, S.M., Covault, J.A., Maier, K.L., **Romans, B.W.**, Traer, M., and Rowland, J.C., 2013, Erosion at inception of deep-sea channels: *Marine and Petroleum Geology*, 41, 48-61
- (20) Covault, J.A., Craddock, W.H., **Romans, B.W.**, Fildani, A., and Gosai, M., 2013, Spatial and temporal variations in landscape evolution; historic and longer-term sediment flux through global catchments: *The Journal of Geology*, 121, 35-56

- (19) **Romans, B.W.** and Graham, S.A., 2013, A deep-time perspective of land-ocean linkages in the sedimentary record: *Annual Reviews of Marine Science*, 5, 69-94
- (18) Covault, J.A., Shelef, E., Traer, M., Hubbard, S.M., **Romans, B.W.**, and Fildani, A., 2012, Deep-water channel run-out length: Insights from seafloor geomorphology: *Journal of Sedimentary Research*, 82, 25-40
- (17) Fosdick, J.C., **Romans, B.W.**, Fildani, A., Bernhardt, A., Calderon, M., and Graham, S.A., 2011, Kinematic history of the Cretaceous-Neogene Patagonian fold-thrust belt and Magallanes foreland basin, Chile and Argentina (51°30'S): *Geological Society of America Bulletin*, 123, 1679-1698
- (16) Covault, J.A., Hilley, G.E., **Romans, B.W.**, Fildani, A., and Graham, S.A., 2011, Terrestrial source to deep-sea sink sediment budgets at high and low sea levels: Insights from tectonically active southern California: *Geology*, 39, 619-622
- (15) **Romans, B.W.**, Fildani, A., Hubbard, S.M., Covault, J.A., Fosdick, J.C., and Graham, S.A., 2011, Evolution of deep-water stratigraphic architecture, Magallanes Basin, Chile: *Marine and Petroleum Geology*, 28, 612-628
- (14) Covault, J.A., Fildani, A., **Romans, B.W.**, and McHargue, T.R., 2011, The natural range of submarine canyon-and-channel longitudinal profiles: *Geosphere*, 7, 313-332
- (13) McHargue, T.R., Pyrcz, M.J., Sullivan, M.D., Clark, J., Fildani, A., **Romans, B.W.**, Covault, J.A., Levy, M., Posamentier, H., and Drinkwater, N., 2011, Architecture of turbidite channel systems on the continental slope: Patterns and predictions: *Marine and Petroleum Geology*, 28, 728-743
- (12) Pyrcz, M.J., McHargue, T.R., Sullivan, M.D., Clark, J., Drinkwater, N., Fildani, A., Posamentier, H., **Romans, B.W.**, and Levy, M., 2011, Numerical modeling of deepwater channel stacking pattern from outcrop and the quantification of reservoir significance: *SEPM Concepts in Sedimentology and Paleontology No. 10*
- (11) **Romans, B.W.**, Fildani, A., Graham, S.A., Hubbard, S.M., and Covault, J.A., 2010, Importance of predecessor basin history on sedimentary fill of a retroarc foreland basin: Provenance analysis of the Cretaceous Magallanes basin, Chile (50°-52°S): *Basin Research*, 22, 640-658
- (10) Hubbard, S.M., Fildani, A., **Romans, B.W.**, Covault, J.A., and McHargue, T.R., 2010, High-relief slope clinoform development: Insights from outcrop, Magallanes Basin, Chile: *Journal of Sedimentary Research*, 80, 357-375
- (9) Covault, J.A., **Romans, B.W.**, Fildani, A., McGann, M.M., and Graham, S.A., 2010, Rapid climatic signal propagation from source to sink in a southern California sediment routing system: *The Journal of Geology*, 118, 247-259
- (8) **Romans, B.W.**, Normark, W.R., McGann, M.M., Covault, J.A., and Graham, S.A., 2009, Coarse-grained sediment delivery and distribution in the Holocene Santa Monica Basin, California: Implications for evaluating source-to-sink flux at millennial time scales: *GSA Bulletin*, 121, 1394-1408
- (7) Normark, W.R., Piper, D.J.W., **Romans, B.W.**, Covault, J.A., and Dartnell, P., 2009, Submarine canyon and fan systems of the California Continental Borderland: in H. Lee and W.R. Normark, eds., *Earth Science in the Urban Ocean: The Southern California Continental Borderland: Geological Society of America Special Paper 454*, 141-168
- (6) Covault, J.A. and **Romans, B.W.**, 2009, Growth patterns of deep-sea fans revisited: Turbidite system morphology in confined basins in the Quaternary California Borderland: *Marine Geology*, 265, 51-66

- (5) Armitage, D.A., **Romans, B.W.**, Covault, J.A., and Graham, S.A., 2009, The influence of mass transport deposit surface topography on the evolution of turbidite architecture: The Sierra Contreras, Tres Pasos Formation (Cretaceous), southern Chile: *Journal of Sedimentary Research*, 79, 287-301
- (4) Covault, J.A., **Romans, B.W.**, and Graham, S.A., 2009, Large-scale shelf-edge delta stratigraphic architecture and development in the Cretaceous Magallanes Basin, southern Chile: *Journal of Sedimentary Research*, 79, 523-539
- (3) **Romans, B.W.**, Hubbard, S.M., and Graham, S.A., 2009, Stratigraphic evolution of an outcropping continental slope system, Tres Pasos Formation at Cerro Divisadero, Chile: *Sedimentology*, 56, 737-764
- (2) Hubbard, S.M., **Romans, B.W.**, and Graham, S.A., 2008, Deep-water foreland basin deposits of the Cerro Toro Formation, Magallanes basin, Chile: Architectural elements of a sinuous basin axial channel belt: *Sedimentology*, 55, 1333-1359
- (1) Covault, J.A., Normark, W.R., **Romans, B.W.**, and Graham, S.A., 2007, Highstand fans of the California Borderland: The overlooked deep-water depositional system: *Geology*, 35, 783-786

Scientific Ocean Drilling (IODP) Publications:

Pérez, L., De Santis, L., McKay, R.M., Larter, R., Ash, J., Bart, P., Böhm, G., Brancatelli, G., Browne, I., Colleoni, F., Dodd, J., Geletti, R., Laberg, J., Leckie, R.M., Levy, R., Marschalek, J., Mateo, Z., Naish, T., Sangiorgi, F., Shevenell, A., Sorlien, C., van der Flierdt, T., and the **Expedition 374 Scientists**, 2021, Early and middle Miocene ice sheet dynamics in the Ross Sea: results from integrated core-log-seismic interpretation. *GSA Bulletin*, doi: 10.1130/B35814.1

McKay, R.M., De Santis, L., Kulhanek, D.K., and the **Expedition 374 Scientists**, 2019, Ross Sea West Antarctic Ice Sheet History. Proceedings of the International Ocean Discovery Program, 374: College Station, TX (International Ocean Discovery Program), doi: 10.14379/iodp.proc.374.2019

McKay, R.M., De Santis, L., Kulhanek, D.K., and **Expedition 374 Scientists**, 2018, Expedition 374 Preliminary Report: Ross Sea West Antarctic Ice Sheet History. *International Ocean Discovery Program*, 374. doi: 10.14379/iodp.pr.374.2018

Batenburg, S.J., Friedrich, O., Moriya, K., Voigt, S., Cournede, C., Mobius, I., Blum, P., Bornemann, A., Fiebig, J., Hasegawa, T., Hull, P.M., Norris, R.D., Rohl, U., Sexton, P.F., Westerhold, T., Wilson, P.A., and **Expedition 342 Scientists**, 2018, Late Maastrichtian carbon isotope stratigraphy and cyclostratigraphy of the Newfoundland Margin (Site U1403, IODP Expedition 342). *Newsletters on Stratigraphy*, 51(2) pp. 245-260., doi: 10.5194/cp-2016-51

Norris, R.D., Wilson, P.A., Blum, P., and the **Expedition 342 Scientists**, 2014, *Proceedings IODP, 342*: College Station, TX (Integrated Ocean Drilling Program). iodp.org/proceedings/342/iodp.htm

Expedition 342 Scientists, 2012, Paleogene Newfoundland sediment drifts: *IODP Preliminary Report*, 342. doi: 10.2204/iodp.pr.342.2012

Other Special Publications, Editorials, Field Guides, Comments/Replies, and Reports:

Wernette, B., Koperna, G., Oudinot, A., Wallace, M., Roth, B., Zulqarnian, M., Zeidouni, M., Pashin, J., Koehn, L., Pollyea, R.M., **Romans, B.W.**, and Ripepi, N., 2022, SECARB Subtask 4.2 Report – Simulation and Modeling Report on Representative CO₂ Storage Opportunities. Submitted to U.S. Office of Fossil Energy and Carbon Management via Southern States Energy Board, Jul 1.

Koehn, L., Pollyea, R.M., **Romans, B.W.**, and Ripepi, N., 2022, SECARB Offshore Topical Report: Preliminary Results for Task 4.2.5 – Adapting Ensemble Simulation Methods and Uncertainty Assessment for Offshore CO₂ Storage. Submitted to U.S. Office of Fossil Energy and Carbon Management via Southern States Energy Board, June 15.

Romans, B.W., 2021, Scientific ocean drilling and sedimentary geoscience: Decades of discovery and a vision for the future: *The Sedimentary Record*, doi: 10.2110/sedred.2021.3.1

Romans, B.W., Fosdick, J.C., Poyatos-Moré, M., and Helland-Hansen, W., 2020, Editorial: Sedimentary System Response to External Forcings: A Process-Based Perspective: *Frontiers in Earth Science*, doi: 10.3389/feart.2020.591420

Martindale, R.C., Benison, K., Jackson, C., and **Romans, B.W.**, 2019, SEPM — Sedimentary Geology in the Twitterverse: *The Sedimentary Record*, 17, 10-11, doi: 10.2110/sedred.2019.4

Hubbard, S.M, **Romans, B.W.**, and Fildani, A., 2011, The stratigraphic evolution of deep-water architecture: *Marine and Petroleum Geology*, 28, 609-611 [introduction to special volume]

Warrick, J.A., **Romans, B.W.**, Leverich, G.T., and Booth, D.B., 2011, Source-to-Sink in the Western Transverse Ranges: An Introduction and Field Guide: *2011 AGU Chapman Conference on Source-to-Sink Systems Around the World and Through Time*

Fildani, A., Hubbard, S.M, and **Romans, B.W.**, 2009, Stratigraphic Evolution of Deep-Water Architecture: Examples of Controls and Depositional Styles from the Magallanes Basin, Southern Chile: *SEPM Field Guide No. 10*, 80 p

Covault, J.A., **Romans, B.W.**, and Graham, S.A., 2008, Highstand fans of the California Borderland; REPLY: *Geology; Online forum*, e167

Fildani, A., **Romans, B.W.**, Fosdick, J.F., Crane, W.H., and Hubbard, S.M., 2008, Orogenesis of the Patagonian Andes as reflected by basin evolution in southernmost South America: *Arizona Geological Society Digest* 22, 259-268

Gardner, M.H., Borer, J.M., **Romans, B.W.**, Baptista, N., Kling, E.K., Hanggoro, D., Melick, J.J., Wagerle, R.M., Carr, M.M., Amerman, R., and Atan, S., 2008, Stratigraphic models for deep-water sedimentary systems: *28th Annual Gulf Coast Section SEPM Foundation Bob. F. Perkins Research Conference*

Hubbard, S.M., **Romans, B.W.**, and Graham, S.A., 2007, An outcrop example of large-scale conglomeratic intrusions sourced from deep-water channel deposits, Cerro Toro Formation, Magallanes Basin, Southern Chile: in A. Hurst and J. Cartwright, eds., *Sand Injectites: Implications for Hydrocarbon Exploration and Production: AAPG Memoir* 87, 199-207

Romans, B.W., Shultz, M.R., Hubbard, S.M., and Graham, S.A., 2007, Facies architecture of slope channel complexes, Tres Pasos Formation at Cerro Divisadero, southern Chile: in T. Nilsen, R. Shew, G. Steffens, and J. Studlick, eds., *Atlas of Deep-Water Outcrops: AAPG Studies in Geology*, 56, 132-137

Hubbard, S.M., **Romans, B.W.**, and Graham, S.A., 2007, Deepwater channel margin architecture, Cerro Toro Formation (Campanian), Cerro Mocho, Chile: in T. Nilsen, R. Shew, G. Steffens, and J. Studlick, eds., *Atlas of Deep-Water Outcrops: AAPG Studies in Geology*, 56, 128-131

Hubbard, S.M., **Romans, B.W.**, Erohina, T., and Lowe, D.R., 2007, Facies and internal architecture of deepwater channel fill in the Cerro Toro Formation, Sarmiento Vista, Chile: in T. Nilsen, R. Shew, G. Steffens, and J. Studlick, eds., *Atlas of Deep-Water Outcrops: AAPG Studies in Geology*, 56, 140-142

Fildani, A., Crane, W.H., **Romans, B.W.**, Hubbard, S.M., and Shultz, M.R., 2007, Mesozoic through early Tertiary stratigraphic evolution and deep-water deposition of the Magallanes Basin, southern Patagonia, Chile: in T. Nilsen, R. Shew, G. Steffens, and J. Studlick, eds., *Atlas of Deep-Water Outcrops: AAPG Studies in Geology*, 56, 140-142

Jacobi, R., Loewenstein, S., and **Romans, B.W.**, 1999, The basal sandstone in the Stahl No. 1 well, Wyoming county, New York: Is it a correlative of the Rose Run Sandstone?: *NYSERDA Final Report*, Contract Number D 4378-ERTER-ER-97

Invited Presentations and Lectures

Colorado State University, Ft. Collins, 2023

Climatic and Biotic Events of the Paleogene (CBEP), Bremen, Germany, 2022 [invited keynote speaker]

Western University Canada, Dept. of Earth Sciences, 2021 [virtual]

ExxonMobil, 2020 [virtual]

Simon Fraser University (Canada), Dept. of Earth Sciences, 2020 [virtual]

Climatic and Biotic Events of the Paleogene (CBEP), Bremen, Germany, 2020 [invited keynote speaker; event postponed due to COVID-19]

Montclair State University Dept. of Earth and Environmental Science, 2020 [virtual]

University of Geneva (Switzerland), Dept. of Earth Science, 2020 [virtual]

Radford University, Dept. of Geology, 2019

University of Arkansas, Dept. of Geosciences, 2019

University Nebraska-Lincoln, Dept. of Earth and Atmospheric Sciences, 2019

University of Texas at Austin, Jackson School of Geosciences and Bureau of Economic Geology, 2019

Colorado School of Mines, Dept. of Geology and Geological Engineering, 2019

University of Cincinnati, Dept. of Geology, 2019

Scripps Institution of Oceanography, University of California San Diego, 2019

University of South Florida, College of Marine Science, St. Petersburg, 2018

Calvin College, Dept. of Geology, Geography, and Environmental Studies, 2018

University of Colorado Boulder, Dept. of Geological Sciences and INSTAAR, 2018

Mt. San Antonio College, Dept. of Earth Sciences and Astronomy, 2018

Northern Virginia Community College, Geology Division, 2018

American Assoc. of Petroleum Geologists, SEPM Research Symposium, 2016

Stanford University, Dept. of Geological Sciences, 2015

National Oceanography Centre, University of Southampton, United Kingdom, 2015

University North Carolina, Chapel Hill, NC (declined invite due to scheduling conflict)

American Geophysical Union Fall Meeting (invited presenter), San Francisco, 2014
 West Virginia University, Dept. of Geology and Geography, 2014
 American Assoc. of Petroleum Geologists, SEPM Research Session, 2014
 European Geosciences Union General Assembly (invited keynote), Vienna, Austria, 2013
 University of North Carolina, Coastal Science Institute, 2013
 University of Arizona, Dept. of Geosciences, 2013
 University of South Carolina, Marine Science Program, 2012
 Virginia Tech, Dept. of Geography, 2012
 Bucknell University, Dept. of Geology, 2012
 U.S. Geological Survey, Energy Resources Division, Reston, VA, 2012
 University of North Carolina Charlotte (declined invite due to scheduling conflict)
 INACH (Chilean Antarctic Institute), Punta Arenas, Chile, 2012
 University Centre Svalbard, Longyearbyen, Norway, 2009

Advising / Mentoring

Graduate Students and Post-Docs (11)

Current (2)

Natalia Varela, Ph.D., *Pliocene-Pleistocene turbidite sedimentation in the Ross Sea: Implications for Antarctic Bottom Water (AABW) history*; 2018-present

Michala Puckett, M.S., *Variability of sedimentary texture in deep-marine sandstones: Exploring new techniques in petrographic and image-analysis characterization*; 2022-present

Completed (9)

Sebastian A. Kaempfe Droguett, Ph.D., *Multi-scale deep-marine stratigraphic expressions in the Cretaceous Magallanes Basin, Chile: Implications for depositional architecture and basin evolution*; 2017-2022

Andrew Parent, Ph.D., *Deep-marine depositional systems of the western North Atlantic: Insights into climate and passive-margin evolution*; 2017-2021

Cody C. Mason, post-doctoral fellowship, *Source-to-sink dynamics of large sediment routing systems with and without continental ice sheets*; 2017-2018

Cody C. Mason, Ph.D., *Tectonic exhumation and climate driven erosion in extensional mountain blocks: Two examples from California, USA*; 2012-2017

Neal C. Auchter, Ph.D., *Basin evolution and slope system dynamics of the Cretaceous Magallanes Basin, Chilean Patagonia*; 2012-2016

Sarah Jancuska, M.S., *Sedimentary processes and deposits related to slope system initiation, Upper Cretaceous Magallanes Basin, southern Patagonia*; 2013-2016

Kristin Chilton, M.S., *Terrigenous grain-size record of the Newfoundland Ridge contourite drift, IODP Site U1411: The first physical proxy record of North Atlantic abyssal current intensity during the Eocene-Oligocene Transition*; 2014-2016

Ali Can Diyarbakirli, M.S., *Stratigraphic analysis and reservoir characterization of the late Oligocene-early Miocene Upper Yenimuhcir Group, Thrace Basin, Turkey*; co-advised with Dr. Ken Eriksson; 2013-2016

Patrick R. Boyle, M.S., *Cenozoic variations in the Deep Western Boundary Current as recorded in the seismic stratigraphy of the Newfoundland Drift Complex, offshore Canada*; 2012-2014

Undergraduate Students (11)

Completed (11)

Omar Ghamedi, *Characterization of the sand fraction in Pliocene-Pleistocene mud-dominated deep-sea deposits, Ross Sea, Antarctica*; 2019-2020

Samantha Bour, *Morphometrics of the Hatteras sediment wave field, U.S. Atlantic continental rise*; 2018

Kelly Hale, *Clast characterization of Pliocene-Pleistocene continental slope deposits, Ross Sea, Antarctica*; 2018

Taylor Sanchez, *Ice rafting or bottom currents? Characterization of the sand fraction in Oligocene mud-dominated deep-sea deposits of the Newfoundland Ridge*; 2016

Shauna Flynn, *North Atlantic Ocean deep-water circulation dynamics at the Eocene-Oligocene Transition*; 2015

Telemachos Manos, *Evaluating the influence of 300 million-year-old rivers on modern Appalachian Plateau topography*; 2015

Rachel Corrigan, *Response of the Deep Western Boundary Current to climate change at the Oligocene-Miocene transition, Newfoundland Ridge drift complex*; 2014

Eric Lahart, *Dynamics of the Deep Western Boundary Current from Greenhouse to Icehouse (Eocene-Oligocene transition), Newfoundland Ridge drift complex*; 2014

Robert Ulrich, *Petrographic characterization of axis versus margin sandstones in submarine channel deposits, Cretaceous Tres Pasos Formation, Chile*; 2014

Sarah Ault, *Carbonate dissolution or terrigenous dilution? Sortable silt record of decimeter-scale sedimentary cycles in the Eocene, Newfoundland Ridge drift complex*, 2013-2014

Christopher Matthews, *Testing the contourite facies model with quantitative grain-size data*; 2013-2014

Professional Activities and Service

Scientific Panels

Member of writing team for 2050 Science Framework (document to funding agencies and stakeholders for scientific ocean drilling through 2050), 2019-2020

Panelist for NSF Marine Geology and Geophysics program and proposal review, 2020

International Ocean Discovery Program (IODP), Science Evaluation Panel (SEP), 2013-2016

Member of Scientific Committee for 2nd Deep-Water Circulation Congress, Ghent Belgium, 2014

Journal / Proposal Editing and Reviewing

Journal reviewer for: *Geology, Paleoceanography and Paleoclimatology, Earth-Science Reviews, Earth and Planetary Science Letters, GSA Bulletin, Nature Communications, Sedimentology, Marine Geology, Journal of Sedimentary Research, Scientific Reports, Annual Review of Marine Science, Basin Research, The Journal of Geology, Frontiers in Earth Science, Journal of South American Earth Sciences, Sedimentary Geology, Marine and Petroleum Geology, Geosphere, Geomorphology*

Proposal reviewer for: *National Science Foundation (eleven since 2010), American Chemical Society-Petroleum Research Fund (three since 2013)*

Associate Editor for *Frontiers in Earth Science, Sedimentology, Stratigraphy, and Diagenesis, 2018-2022*

Editorial Board for *Geology, 2013-2016*

Conference Chairing / Special Issue Editing

Co-chair (with Dixon, B.T. and Steel, R.) for AAPG Annual Meeting Technical Session *Source to Sink*; May 2019, San Antonio, Texas

Co-chair (with Coxall, H., Lippert, P., and Sliwinska, K.) for AGU Fall Meeting Technical Session *The North Atlantic region in the early icehouse world*; December 2018, Washington, D.C.

Co-chair (with Jones, E.) for AAPG Annual Meeting Technical Session *SEPM Research Symposium: Dynamics of Sediment Transfer Between Linked Depositional Systems: From Rivers to Lakes and Oceans*; May 2018, Salt Lake City, Utah

Scientific Program Committee Member for Climatic and Biotic Events of the Paleogene (CBEP) 2017; Snowbird, Utah, Sept 4-7, 2017 <http://cbep2017.utah.edu>

Co-chair (with Prather, B. and Carvajal, C.) for AAPG Annual Meeting Technical Session *Deep-marine deposits: New insights relevant to worldwide deep-water exploration and production*; April 2017, Houston, Texas

Co-chair (with Dixon, B.T., Covault, J.A., and Hubbard, S.M.) GSA Annual Meeting Technical Session *Revisiting the Atlantic Continental Margin: New Insights on the Geologic Evolution of North American Passive Margin Basins*; November 2015, Baltimore, Maryland

Co-chair (with Covault, J.A., Hubbard, S.M., and Fildani, A.) for SEPM Research Symposium – AAPG Annual Meeting *Channels: From Geomorphic Expression to Stratigraphic Record*; June 2015, Denver, Colorado

Co-chair (with Van Rooij, D.) for AGU Fall Meeting Technical Session *The Paleoceanographic Value of Contourite Archives*; December 2014, San Francisco, California

Co-chair (with Eggenhuisen, J. and Parker, G.) for AGU Fall Meeting Technical Session *Sediment Transport by Turbidity Currents: Simulation and Observation*; December 2013, San Francisco, California

Co-chair (with Weislogel, A. and Fosdick, J.) for GSA Annual Meeting Technical Session *Integrated Detrital Records of Orogenic Systems*; November 2012, Charlotte, North Carolina.

Co-chair (with Covault, J.A. and Hubbard, S.M.) for GSA Annual Meeting Technical Session *Cyclicity and Hierarchy in the Clastic Stratigraphic Record*; November 2012, Charlotte, North Carolina.

Program Committee Member for 2012 AAPG Annual Meeting in Long Beach, CA.

Co-chair (with Covault, J.A.) for AAPG Annual Meeting Technical Session *Application of Integrated Sedimentary Systems Analysis*; April 2012, Long Beach, California.

Co-chair (with Paola, C., Posamentier, H., and Martinsen, O.) for AAPG Annual Meeting Technical Session *Source to Sink: Evaluating the Significance of Interdependence of Depositional Systems*; April 2011, Houston, Texas.

Program Committee Member for AGU Chapman Conference *Source to Sink Systems Around the World and Through Time*; January 2011, Oxnard, California.

Co-editor (with Hubbard, S.M., and Fildani, A.) for special thematic issue of Marine and Petroleum Geology *Stratigraphic Evolution of Deep-Water Architecture*; March 2011, v. 28.

Co-chair (with Morris, W.M.) for Pacific Section AAPG Annual Meeting Technical Session *Making the Link from Modern to Ancient Turbidite Systems: An Integrated Approach in Honor of Bill Normark*; May 2009, Ventura, California.

Co-convenor and field guidebook co-editor (with Fildani, A., and Hubbard, S.M.) for SEPM Research Conference *Stratigraphic Evolution of Deep-Water Architecture: Examples from Cretaceous Magallanes Basin, Chile*; February 2009, Puerto Natales, Chile.

Co-chair (with Martin, J.M.) for AGU Annual Meeting Session H33C *Natural and Experimental Depositional Landscapes and Stratigraphic Architecture: Bridging the Gap Between the Surface and Subsurface*; December 2008, San Francisco, California.

Co-chair (with Fildani, A., and Hubbard, S.M.) for AAPG Annual Meeting Technical Session *Process-Related Architectural Changes in Deep-Water Deposits*; April 2008, San Antonio, Texas.

Co-chair (with Battacharya, J.P.) for AAPG Hedberg Research Conference *Sediment Transfer from Shelf to Deepwater - Revisiting the Delivery Mechanisms* for technical session entitled *Deep marine fossil systems*; March 2008, Ushuaia, Argentina.

Professional Societies

Member, National Association of Geoscience Teachers (NAGT), 2020-present

Member, American Geophysical Union (AGU), 2005-present

Member, Society for Sedimentary Geology (SEPM), 2002-present

Member, Geological Society of America (GSA), 2002-present

Member, American Association of Petroleum Geologists (AAPG), 1999-2019

Nominating Committee, Society for Sedimentary Geology (SEPM), 2016-2019

Web Communications Councilor, Society for Sedimentary Geology (SEPM), 2012-2014

Teaching

Sedimentology-Stratigraphy, Virginia Tech; required course for geoscience majors, 2011-present

Climate History: Past, Present, and Future, Virginia Tech; introductory undergraduate course open to all majors, 2022-present

Seismic Stratigraphy, Virginia Tech; graduate and upper-level undergraduate, 2013-present

Sedimentary Basins, Virginia Tech; graduate and upper-level undergraduate, 2014-present

Oceanography, Virginia Tech; undergraduate course open to all majors, 2017

Deep-water Stratigraphy and Reservoir Characterization, Chevron Energy Technology Co.; instructor for classroom- and field-based training courses, 2008-2011

Sedimentary Processes and Architecture, University Centre at Svalbard; Guest lecturer and field trip leader for field-based course, 2009

Tectonics and Sedimentation, Colorado School of Mines; Guest lecturer for two-day workshop for graduate students, 2008

Reservoir Modeling and Flow Simulation with Outcrop Data, Stanford University; Teaching assistant for Drs. Graham, Journel, and Aziz, 2004-2006

Sedimentary Basins, Stanford University; Teaching assistant for Dr. Graham, 2005

Fundamentals of Geology, Stanford University; Teaching assistant for Dr. Surpless (2003), Dr. Ernst (2004), and Dr. Wright-Dunbar (2006)

Undergraduate Geology Field Camp for Petroleum Engineers, Colorado School of Mines; Teaching assistant for Drs. Anderson and Miskimins, 2002-2003

Petroleum Industry Experience

Chevron Energy Technology Co., Research scientist, San Ramon, California, 2008-2011

Chevron Energy Technology Co., Internship, San Ramon, California, 2006

BP – Gulf of Mexico Deepwater Development, Internship, Houston, Texas, 2002

Cabot Oil and Gas Corporation, Internship, Denver, Colorado, 2001

Prima Energy Corporation, Assistant geologist, Denver, Colorado, 1998-2000

Quest Energy, Inc., Assistant geologist, Amherst, New York, 1997-1998

Conference Abstracts

underline = student/post-doc advisee; * = *Chile Slope Systems* student/post-doc at other institution

2022

Varela, N., Romans, B.W., Sylvester, Z., Patterson, M.O., Ash, J., Kulhanek, D., DeSantis, L., and McKay, R.M., 2022, Antarctic Bottom Water (AABW) formation history in the Ross Sea: Insights from the Pliocene-Pleistocene record at IODP Site U1524: American Geophysical Union (AGU) Fall Meeting, Chicago, IL

Koehn, L.W., **Romans, B.W.**, Pollyea, R.M., 2022, Developing a representative model for offshore CO₂ storage in the Gulf of Mexico continental shelf, In Proceedings, Second International Meeting for Applied Geoscience and Energy, Society of Exploration Geophysicists and American Association of Petroleum Geologists, Houston Texas. 28 Aug – 1 Sept

Varela, N., Romans, B.W., and Sylvester, Z., 2022, Turbidity currents associated with dense bottom-water formation in Antarctica: Evidence from Pliocene-Pleistocene deposits in the Ross Sea (IODP Site U1524): SEPM 1st Virtual Bouma Conference Meeting, April 20-22 [virtual]

*Bell, D., Hubbard, S. M., Heijnen, M. S., Clare, M. A., Cartigny, M. J. B., *Hage, S., *Englert, R. G., *Nesbit, P. R., Eggenhuisen, J. T., **Romans, B.W.**, Lintern, D. G., Stacey, C., and Hughes-Clarke, J. E., 2022, Linking knickpoint morphodynamic processes to the stratigraphic products of modern and ancient submarine channels: SEPM 1st Virtual Bouma Conference Meeting, April 20-22 [virtual]

*Bell, D., Hubbard, S. M., Heijnen, M. S., Clare, M. A., Cartigny, M. J. B., *Hage, S., *Englert, R. G., *Nesbit, P. R., Eggenhuisen, J. T., **Romans, B.W.**, Lintern, D. G., Stacey, C., and Hughes-Clarke, J. E., 2022, Linking knickpoint morphodynamic processes to the stratigraphic products of modern and ancient submarine channels: GeoConvention, Calgary, Canada.

*Englert, R.G., Hubbard, S.M., **Romans, B.W.**, Kaempfe, S.A., *Nesbit, P.R., *Bell, D., and Stright, L., 2022, Flow processes and bed-scale characteristics associated with a fault-controlled intra-slope fan deposit, Tres Pasos Formation, Chile, Geoconvention, Calgary, AB.

2021

*Peploe, T.G.E., Poyatos-Moré, M., *Hage, S., **Romans, B.W.**, *Nesbit, P.R., *Bell, D., *Englert, R.G., Kaempfe, S.A., and Hubbard, S.M., 2021, Facies and stratigraphic analysis of three scales of clinotherms in an exhumed basin margin succession, southern Chile: British Sedimentological Research Group Annual General Meeting [virtual]

*Bell, D., Hubbard, S. M., Heijnen, M. S., Clare, M. A., Cartigny, M. J. B., *Hage, S., *Englert, R. G., *Nesbit, P. R., Eggenhuisen, J. T., **Romans, B.W.**, Lintern, D. G., Stacey, C., and Hughes-Clarke, J. E., 2021, Don't go chasing (submarine) waterfalls: linking knickpoint morphodynamic processes to the stratigraphic record of submarine channels: British Sedimentological Research Group Annual General Meeting [virtual]

Varela, N., Romans, B.W., Patterson, M., Kulhanek, D., Ash, J., and Mckay, R., 2021, Turbidite Deposits in the Ross Sea as a Record of Antarctic Bottom Water (AABW) Formation During the Pliocene-Pleistocene (IODP Site U1524). Abstract B3 presented at the US-SCAR Meeting, July 12-15 [virtual]

Kaempfe, S.A., Romans, B.W., Hubbard, S.M., Stright, L., and Daniels, B.G., 2021, Early stage slope channel-fill deposits preserved at the base of an internal levee succession, Tres Pasos Formation, Chile, International Meeting for Applied Geoscience and Energy, Denver, CO, USA [virtual]

*Langenkamp, T., Stright, L., Hubbard, S.M., and **Romans, B.W.**, 2021, Quantitatively evaluating the preservation of deep-water channel architecture using 3D synthetic seismic from outcrop: EAGE [virtual]

Varela, N., Romans, B.W., Patterson, M., Kulhanek, D., Ash, J., and Mckay, R., 2021, Sedimentology of overbank turbidity current deposits in a high-latitude channel-levee system, Hillary Canyon, Ross Sea (IODP Site U1524): Can turbidites be used as a proxy for bottom-water outflow? Lightning talk presented at the ISGC 2021 Student and Early Career Virtual Conference, June 7-9. [virtual]

*Langenkamp, T., Stright, L., Hubbard, S.M., and **Romans, B.W.**, 2021, Quantitatively evaluating the preservation of deep-water channel architecture using 3D synthetic seismic from outcrop: International Meeting for Applied Geoscience and Energy, Denver, CO, USA [virtual]

2020

Varela, N., Romans, B.W., Patterson, M.O., Ash, J.L., Kulhanek, D.K., DeSantis, L., and McKay, R.M., 2020, Sedimentary record of Antarctic Bottom Water (AABW) outflow in the Ross Sea since 3.3 Ma (IODP Sites U1524 and U1525): AGU Fall Meeting [virtual]

Stevens Goddard, A., Fosdick, J.C., Calderon, M., Ghiglione, M., Romans, B.W., and VanderLeest, R.A., 2020, Eocene exhumation in the southern Patagonian Andes and implications for regional tectonics: AGU Fall Meeting [virtual]

Parent, A.M., Romans, B.W., Mason, C.C., Foster-Baril, Z., Covault, J.A., and Stockli, D., 2020, Passive margin sedimentation during the early drift phase of the U.S. mid-Atlantic: Perspectives from U-Pb detrital zircon geochronology: GSA Annual Meeting [virtual]

Kaempfe, S.A., Romans, B.W., Hubbard, S.M., Stright, L., *Englert, R., and *Daniels, B.G., 2020, Characterization of a clastic injectite network at the transition from deep-water channel-levee to incipient slope system strata: Implications for evolution of the Magallanes foreland basin, Chile, SEPM International Sedimentary Geosciences Congress (ISGS), Flagstaff, AZ [meeting canceled due to COVID-19]

Parent, A.M., Chilton, K.D., and Romans, B.W., 2020. The value of terrigenous grain-size information from contourite drifts: North Atlantic deep circulation history across the Eocene-Oligocene Transition, Newfoundland Ridges drift complex: SEPM International Sedimentary Geosciences Congress (ISGC), Flagstaff, AZ [meeting canceled due to COVID-19]

Hubbard, S.M., Romans, B.W., Stright, L., Pemberton, E., Daniels, B.G., and Pelpoe, T.G.E., 2020, The identification and implications of large-scale clinofolds in the Austral-Magallanes Basin outcrop belt, southern Chile: AAPG PacBasins 2020 [virtual]

Parent, A.M., Romans, B.W., Mason, C.C., Foster-Baril, Z., Covault, J.A., and Stockli, D.F., 2020. Early Cretaceous sedimentary systems of the U.S. Atlantic passive margin: Insights into fluvial-to-submarine fan linkages from detrital zircons: SEPM International Sedimentary Geosciences Congress (ISGS), Flagstaff, AZ [meeting canceled due to COVID-19]

Parent, A.M., Romans, B.W., Mason, C.C., Foster-Baril, Z., Covault, J.A., and Stockli, D.F., 2020. Evolution of sediment dispersal systems during the early drift phase of U.S. Atlantic margin development: Insights from detrital zircon U-Pb geochronology: GSA Southeastern-Northeastern Regional Meeting, Reston VA [meeting canceled due to COVID-19]

Hubbard, S.M., Romans, B.W., Stright, L., Pemberton, E.A.L., *Daniels, B.G., *Pelpoe, T.G.E., 2020, An outcrop analog for the Colville Foreland Basin from the southern Andes: Clinofolds of the Magallanes Basin, Chile: Alaska Geological Society, Anchorage

2019

Hubbard, S.M., Heijnen, M.S., Cartigny, M., Clare, M.A., Eggenhuisen, J.T., Romans, B.W., *Daniels, B.G., *Englert, R.G., Hughes Clark, J.E., Stacey, C., Lintern, G., and *Nesbit, P.R., 2019, Migrating knick-points are primary morphodynamic agents in submarine channels that control deep-water stratigraphy: AGU Fall Meeting, San Francisco, CA

Parent, A.M., Romans, B.W., Culp, J.P., and Strom, K., 2019, Sorting of silt by bottom currents part II: Grain-size metrics and applicability to paleoceanography: AGU Fall Meeting, San Francisco, CA

Romans, B.W., Aughter, N.C., Johnstone, S.A., Mason, C.C., and Hubbard, S.M., 2019, Effects of Intra-basinal recycling on the preservation of tectonic and climate signal determined from provenance analysis: AGU Fall Meeting, San Francisco, CA

Strom, K., Culp, J.P., Parent, A. and **Romans, B.W.**, 2019, Sorting of silt by bottom currents part I: Laboratory experiments: AGU Fall Meeting, San Francisco, CA

Varela, N., **Romans, B.W.**, Patterson, M.O., Dodd, J., McKay, R.M., De Santis, L., and Kulhanek, D., 2019, A physical record of Antarctic Bottom Water (AABW) outflow in the Ross Sea from the late Pliocene (3.3 Ma) through present: AGU Fall Meeting, San Francisco, CA

Mason, C.C., **Romans, B.W.**, Stockli, D.F., and Fildani, A., 2019, A deep-sea record of South American tectonics and surface processes: Insights from detrital zircon double dating from the Amazon submarine fan: GSA Annual Meeting, Phoenix, AZ

Patterson, M.O.P., Varela, N., **Romans, B.W.**, Ash, J., Kulhanek, D., Keisling, B., McKay, R.M., Rosenberg, C., Jones, H., van Peer, T., De Santis, L., and IODP Expedition 374 Scientists, 2019, Assessing the orbital response of the WAIS from a Ross Sea deep ocean perspective since the Late Pliocene: International Symposium on Antarctic Earth Sciences (ISAES), Icheon, Korea

Speesen, J.M., Mason, C.C., Heltzer, J., Miles, G.P., Stockli, D.F., **Romans, B.W.**, and Fildani, A., 2019, Stratigraphic correlation and signal propagation across sedimentary system segments using U-Pb detrital zircon geochronology: Insights from the late Pleistocene Mississippi Fan: GSA Annual Meeting, Phoenix, AZ

Romans, B.W., De Santis, L., McKay, R.M., Kulhanek, D.K., and Expedition 374 Scientists, 2019, Understanding ice-sheet vulnerability using an integrated subsurface sedimentary geoscience approach: Preliminary results from Neogene and Quaternary records acquired during IODP Expedition 374 to the Ross Sea, Antarctica: AAPG Annual Convention and Exhibition, San Antonio, TX

*Daniels, B.G., Hubbard, S.M., Stright, L., and **Romans, B.W.**, 2019, Downslope variability in deep-water slope channel fill and stacking patterns: Insights from outcrop and shallow seismic analogs: AAPG Annual Convention and Exhibition, San Antonio, TX

*Englert, R.G., Hubbard, S.M., **Romans, B.W.**, Kaempfe, S.A., and Stright, L., 2019, Sedimentologic and stratigraphic evidence for flow transformations as turbidity currents encounter intraslope minibasins: Implications for up-dip stratigraphic traps from an outcrop analog: AAPG Annual Convention and Exhibition, San Antonio, TX

Kaempfe, S.A., **Romans, B.W.**, Hubbard, S.M., Stright, L., *Englert, R.G., and *Niquet, D., 2019, Synsedimentary faulting controls on sandstone distribution in an incipient slope system, Tres Pasos Formation, Chile: AAPG Annual Convention and Exhibition, San Antonio, TX

2018

Culp, J.P., Strom, K., **Romans, B.W.**, and Parent, A., 2018, Testing of the Sortable Silt hypothesis: Preliminary experimental results: AGU Fall Meeting, Washington, D.C.

Stevens Goddard, A., Fosdick, J.C., Calderon, M., Ghiglione, M., **Romans, B.W.**, and Thomson, S.N., 2018, Evaluating the effects of orogenic exhumation and sediment transfer in foreland basin development: A 4D perspective from the southern Patagonian Andes: AGU Fall Meeting, Washington, D.C.

Parent, A.M., Chilton, K.D., **Romans, B.W.**, 2018, Gradual intensification of North Atlantic deep circulation from Middle Eocene through Late Oligocene: Terrigenous grain size data from IODP Sites U1406 and U1411, Newfoundland ridges: AGU Fall Meeting, Washington, D.C.

*Daniels, B.G., Kaempfe, S.A., Hubbard, S.M., **Romans, B.W.**, and Mathews, W.A., 2018, The influence of Andean orogenic uplift and deformation style on the evolution of stratigraphic architecture, Cretaceous Magallanes foreland basin, Chilean Patagonia: XV Congreso Geológico Chileno, Concepcion, Chile

Kaempfe, S.A., *Daniels, B.G., **Romans, B.W.**, and Hubbard, S.M., 2018, Characterization and evolution of an outcropping deep-water channel-levee complex, Tres Pasos Formation, southern Chile: XV Congreso Geológico Chileno, Concepcion, Chile

Auchter, N.C., **Romans, B.W.**, *Daniels, B.G., and Hubbard, S.M., 2018, Stirring the Detrital Pot: Intra-basinal Sediment Recycling and Mixing Revealed Through Strontium Isotopes, Cretaceous Magallanes Basin, Chile: AAPG Annual Convention and Exhibition, Salt Lake City, UT

*Daniels, B.G., Hubbard, S.M., **Romans, B.W.**, and Matthews, W.A., 2018, Deciphering Tectonic Influence on Sediment Routing System Configuration via Large-n U-Pb Detrital Zircon Geochronology, Cretaceous Magallanes-Austral Basin, Chile and Argentina: AAPG Annual Convention and Exhibition, Salt Lake City, UT

*Daniels, B.G., *Southern, S., Kaempfe, S.A., Stright, L., **Romans, B.W.**, Hubbard, S.M., 2018, Quantifying Longitudinal Changes in Deep-Water Slope Channel Fill Over a 40 km-long Segment of a Submarine Slope System, Cretaceous Tres Pasos Formation, Chile: AAPG Annual Convention and Exhibition, Salt Lake City, UT

Hubbard, S.M., **Romans, B.W.**, *Southern, S., Stright, L., *Daniels, B.G., Fletcher, S., Jackson, A., Kaempfe, S.A., Macauley, R., Nielson, A., *Niquet, D., *Meirovitz, C., Pemberton, E., and Remichen, A.P., 2018, Core- and Log-Based Recognition Criteria for Deep-Water Channel Bodies: Using Outcrops to Inform Stratigraphic Architecture Predictions Beyond the Wellbore: AAPG Annual Convention and Exhibition, Salt Lake City, UT

Kaempfe, S.A., **Romans, B.W.**, Hubbard, S.M., Stright, L., *Daniels, B.G., *Southern, S., 2018, Characterization of a Seismic-Scale, Outcropping Channel-Levee Complex, Tres Pasos Formation, Southern Chile: AAPG Annual Convention and Exhibition, Salt Lake City, UT

Mason, C.C., Romans, B.W., Fildani, A., Stockli, D.F., and Gerber, T., 2018, Evaluating the Effects of First-Order Climatic State and Climate Transitions on Sediment Dynamics Using Detrital Zircons in the Amazon Source-to-Sink System: AAPG Annual Convention and Exhibition, Salt Lake City, UT

*Meirovitz, C., Stright, L., Hubbard, S.M., and **Romans, B.W.**, 2018, Impact of Channel-Fill Asymmetry in Field-Scale Dynamic Reservoir Performance Prediction for Deep-Water Channelized Turbidite Systems: AAPG Annual Convention and Exhibition, Salt Lake City, UT

2017

Auchter, N.C., *Daniels, B.G., Hubbard, S.M., Scher, H., Buckley, W.P., and **Romans, B.W.**, Long-term sediment mixing and intrabasinal sediment recycling using detrital strontium isotope stratigraphy in the Magallanes Basin, Chile: AGU Fall Meeting, New Orleans

Covault, J.A., **Romans, B.W.**, Sharman, G.R., Stockli, D.F., and Fildani, A., 2017, Environmental signal propagation into the stratigraphic record of small mountainous rivers feeding submarine canyon-fan systems, southern California, USA: GeoBremen 2017, Bremen, Germany (**keynote presentation**)

Romans, B.W., Boyle, P.R., Chilton, K.D., 2017, Paleogene deep-sea circulation in the North Atlantic Ocean: Evidence from seismic-reflection and terrigenous grain-size data, Newfoundland Ridge contourite drifts: Climatic and Biotic Events of the Paleogene (CBEP), Snowbird, Utah

Mason, C.C. and **Romans, B.W.**, 2017, Signal propagation in a linked catchment-fan system: Paleo-erosion rates across the middle Pleistocene transition in the Great Basin, U.S.A.: SEPM Research Conference *Propagation of Environmental Signals within Source-to-Sink Stratigraphy*, Tremp and Ainsa, Spanish Pyrenees

Romans, B.W., Covault, J.A., Bookhagen, B., and Hilley, G.E., 2017, Millennial-scale storage and release in small mountain-to-deep-sea sediment-routing systems, southern California: SEPM Research Conference *Propagation of Environmental Signals within Source-to-Sink Stratigraphy*, Tremp and Ainsa, Spanish Pyrenees

Auchter, N.C., **Romans, B.W.**, *Southern, S.J., *Daniels, B.D., Stright, L., and Hubbard, S.M., 2017, Stratigraphic architecture of bypass-dominated slope channel deposits, Tres Pasos Formation, Chilean Patagonia: AAPG Annual Convention and Exhibition, Houston.

*Daniels, B.D., Hubbard, S.M., **Romans, B.W.**, and Stright, L., 2017, Deducing reservoir connectivity via analysis of slope channel fills along a 35-km-long longitudinal transect of a shelf margin system, Tres Pasos Formation, Chile: AAPG Annual Convention and Exhibition, Houston.

*Meirovitz, C., Stright, L., Hubbard, S.M., and **Romans, B.W.**, 2017, Optimal gridding selection for field-scale reservoir simulation of a channelized deep-water system: AAPG Annual Convention and Exhibition, Houston.

*Nielson, A., Stright, L., Hubbard, S.M., and **Romans, B.W.**, 2017, Using RMS amplitudes derived from synthetic forward seismic models of channelized deep-water slope deposits to inform stratigraphic interpretation, Tres Pasos Formation, Magallanes Basin, Chile: AAPG Annual Convention and Exhibition, Houston.

*Southern, S.J., Stright, L., Jobe, Z.R., **Romans, B.W.**, and Hubbard, S.M., 2017, The stratigraphic expression of slope channel evolution: Insights from qualitative and quantitative assessment of channel fills from the Cretaceous Tres Pasos Formation, southern Chile: AAPG Annual Convention and Exhibition, Houston.

Stright, L., *Jackson, A., *Southern, S.J., *Meirovitz, C., **Romans, B.W.**, and Hubbard, S.M., 2017, Predicting 3-D connectivity from core and seismic: an example from outcropping deep-water slope channels: AAPG Annual Convention and Exhibition, Houston.

Romans, B.W., *Daniels, B.G., Auchter, N.C., and Hubbard, S.M., 2017, Timing of coarse-grained sediment delivery to a Cretaceous deep-marine basin, Magallanes Basin, Chile: Insights from zircon geochronology and strontium isotope stratigraphy: Geological Society of London Conference *Deep-Water Depositional Systems: Advances and Applications*

*Southern, S.J., Sylvester, Z., Hubbard, S.M., and **Romans, B.W.**, 2017, Frequency distribution of turbidite thickness in slope-channel fills: insights from the Cretaceous Tres Pasos Formation: Geological Society of London Conference *Deep-Water Depositional Systems: Advances and Applications*

*Southern, S.J., Hubbard, S.M., **Romans, B.W.**, Stright, L., and Jobe, Z.R., 2017, Quantitative description of submarine channel fills: Identifying the stratigraphic expression of variations in channel evolutionary history: Geological Society of London Conference *Deep-Water Depositional Systems: Advances and Applications*

2016

Chilton, K.D., **Romans, B.W.**, Bohaty, S.M., Spray, J.F., Sanchez, T., and Wilson, P.A., 2016, Terrigenous grain-size record of the Newfoundland Ridge contourite drift, IODP Site U1411: The first physical

proxy record of North Atlantic abyssal current intensity during the Eocene-Oligocene Transition: AGU Fall Meeting, San Francisco

Jobe, Z.R., Howes, N., **Romans, B.W.**, and Covault, J.A., 2016, Mass delivery and frequency of submarine fan-building turbidity currents: AGU Fall Meeting, San Francisco

*Daniels, B.G., Auchter, N.C., Hubbard, S.M., **Romans, B.W.**, and Stright, L., 2016, Constraining the timing of sediment delivery to a Cretaceous deep-water slope system via zircon geochronology and detrital strontium isotope stratigraphy, Magallanes Basin, Chile: GSA Annual Meeting, Denver

*Nielson, A., Stright, L., Hubbard, S.M., and **Romans, B.W.**, 2016, Using synthetic forward seismic models of channelized deep-water slope deposits to inform stratigraphic interpretation, Tres Pasos Formation, Magallanes Basin, Chile: GSA Annual Meeting, Denver

Sanchez, T., Chilton, K.D., **Romans, B.W.**, 2016, Using image analysis to estimate grain-size distributions of sand fraction of Oligocene Newfoundland Ridge contourite drift sediments: GSA Annual Meeting, Denver

Stright, L., *Remichen, A.P., Meirovitz, C., Hubbard, S.M., and **Romans, B.W.**, 2016, Modeling sinuous submarine channel deposits aided by modern seafloor and outcrop analogs: GSA Annual Meeting, Denver

Spray, J.F., Wilson, P.A., Bohaty, S.M., Bailey, I., **Romans, B.W.**, and Chilton, K.D., 2016, North Atlantic response to the Eocene-Oligocene Transition (EOT): Sand deposition on the Southeast Newfoundland Ridge: 12th International Conference on Paleoceanography, Utrecht, Netherlands, August 29 – September 2

Auchter, N.C., *Daniels, B.G., Hubbard, S.M., Stright, L., and **Romans, B.W.**, 2016, Timing of slope system evolution and intra-basinal sediment recycling in the Magallanes retroarc foreland basin (Chile) from detrital strontium isotope stratigraphy: AAPG Annual Convention and Exhibition, Calgary.

*Daniels, B.G., Auchter, N.C., Matthews, W., Hubbard, S.M., **Romans, B.W.**, and Stright, L., 2016, The evolution of deepwater slope systems on retroarc foreland basin margins: Insights from detrital zircon geochronology, Tres Pasos Formation, Magallanes Basin, Chile: AAPG Annual Convention and Exhibition, Calgary.

Jancuska, S.N., **Romans, B.W.**, Auchter, N.C., Hubbard, S.M., Stright, L., 2016, Evolution from confined to relatively unconfined strata in distal slope setting, Magallanes Basin, Chilean Patagonia: AAPG Annual Convention and Exhibition, Calgary

*Meirovitz, C.D., Stright, L., Hubbard, S.M., and **Romans, B.W.**, 2016, The influence of intra- and inter-channel architecture in selecting optimal gridding for field-scale reservoir simulation: AAPG Annual Convention and Exhibition, Calgary.

*Nielson, A., Stright, L., Hubbard, S.M., and **Romans, B.W.**, 2016, Using synthetic seismic models of channelized deepwater slope deposits to inform stratigraphic interpretation and reservoir modeling: AAPG Annual Convention and Exhibition, Calgary.

Romans, B.W., Auchter, N.C., Bernhardt, A., Covault, J., *Daniels, B.G., Fildani, A., Fosdick, J., Hubbard, S.M., Jobe, Z.R., Malkowski, M., Schwartz, T.M., Sickmann, Z.T., Stright, L., and Graham, S.A., 2016, Stratigraphic record of foreland basin dynamics, Cretaceous Magallanes-Austral basin, Chile and Argentina: AAPG Annual Convention and Exhibition, Calgary (**invited presentation**).

2015

Chilton, K.D., Romans, B.W., and Flynn, S., 2015, North Atlantic Ocean Circulation Response to Climate Change at Eocene-Oligocene Transition, IODP Site U1411, Newfoundland Ridge Drift Complex: GSA Annual Meeting, Baltimore, MD (won 'Best Student Poster' award in session)

Auchter, N.C., Romans, B.W., Hubbard, S.M., Stright, L., and *Daniels, B.G., 2015, Outcrop example of intrastratal slope deformation controlled by depositional architecture, Tres Pasos Formation, Magallanes Basin, Chile: AAPG Annual Convention and Exhibition, Denver

*Daniels, B.G., Hubbard, S.M., *Jackson, A.A., Stright, L., Romans, B.W., and Auchter, N.C., 2015, Constructing a seismic-scale 3-D geo-model of stacked slope channel deposits grounded in high-resolution observations, Magallanes Basin, Chile: AAPG Annual Convention and Exhibition, Denver

Hubbard, S.M., Romans, B.W., Jobe, Z.R., Covault, J.A., and Fildani, A., 2015, How many turbidity currents pass through a submarine channel and what is their stratigraphic expression?: AAPG Annual Convention and Exhibition, Denver

*Jackson, A.A., Stright, L., Hubbard, S.M., and Romans, B.W., 2015, Characterizing static reservoir connectivity of deep-water slope deposits using sub-seismic outcrop-based facies models, Tres Pasos Formation, Magallanes Basin, Chilean Patagonia: AAPG Annual Convention and Exhibition, Denver

Jancuska, S.N., Romans, B.W., Auchter, N.C., Hubbard, S.M., and Stright, L., 2015, Stratigraphic expression of the transition from basin plain to slope sedimentation in outcropping strata of the Magallanes Basin, Chilean Patagonia: AAPG Annual Convention and Exhibition, Denver

Mason, C.C. and Romans, B.W., 2015, Quantifying sediment supply in stratigraphy using cosmogenic nuclides: Insights from the Pleasant Canyon Complex, Panamint Mountains, California: AAPG Annual Convention and Exhibition, Denver

*Meirovitz, C., *Jackson, A.A., Stright, L., Hubbard, S.M., and Romans, B.W., 2015, Quantifying intra-channel architecture controls on reservoir performance in deep-water slope channel system, Tres Pasos Formation, Magallanes Basin: AAPG Annual Convention and Exhibition, Denver

*Niquet, D., Hubbard, S.M., *Reimchen, A., Laycock, D., Jobe, Z.R., and Romans, B.W., 2015, The orientation of sandstone-filled U-shaped trace fossils as indicators of deep-water channel axis position, Tres Pasos Formation, Chile: AAPG Annual Convention and Exhibition, Denver

Stright, L., *Jackson, A.A., Romans, B.W. and Hubbard, S.M., 2015, Optimizing the preservation of deep-water intra-channel architecture and model connectivity during upscaling: Tres Pasos Formation, Magallanes Basin, Chilean Patagonia: AAPG Annual Convention and Exhibition, Denver

2014

Auchter, N.C., Romans, B.W., Hubbard, S.M., *Daniels, B.G., *Reimchen, A.P., *Jackson, A.A., Stright, L., 2014, Multi-phase submarine channel-fill history recorded by stratigraphic architectures in outcropping slope-channel deposits, Tres Pasos Formation, southern Chile: AGU Fall Meeting, San Francisco

Boyle, P.R., Romans, B.W., Norris, R.D., Tucholke, B.E., Swift, S.A., and Sexton, P.F., 2014, Cenozoic circulation history of the North Atlantic Ocean from seismic stratigraphy of the Newfoundland Ridge Drift Complex: AGU Fall Meeting, San Francisco

Fosdick, J.C., Grove, M.J., Graham, S.A., Hourigan, J.K., Lovera, O.M., and Romans, B.W., 2014, Unraveling burial heating and sediment recycling in retroarc foreland basins: Detrital thermochronologic insights from the northern Magallanes Basin, Patagonian Andes: AGU Fall Meeting, San Francisco

Hubbard, S.M., Covault, J.A., Fildani, A., and **Romans, B.W.**, 2014, The stratigraphic expression of formative processes in channels: AGU Fall Meeting, San Francisco

Mason, C.C., Them, T.R. II, and **Romans, B.W.**, 2014, Are catchment denudation signals stored in alluvial-fan stratigraphy? Measuring paleodenudation rates using cosmogenic radionuclides in the Pleistocene Pleasant Canyon complex, Panamint Mountains, California: AGU Fall Meeting, San Francisco

Romans, B.W., Mason, C.C., and Eriksson, K.A., 2014, Sediment flux from stratigraphy: Insights from <1 Ma to >300 Ma sedimentary archives: AGU Fall Meeting, San Francisco (**invited presentation**)

*Daniels, B.G., Hubbard, S.M., Auchter, N.C., **Romans, B.W.**, *Pemberton, E.A.L., *Remichen, A.P., *Jackson, A.A., and Stright, L., 2014, Deep-Water Sediment Transfer via Slope Channels as Reflected in Outcropping Cretaceous Strata of the Andean Cordillera, Southern Chile: GSA Annual Meeting, Vancouver

Hubbard, S.M., **Romans, B.W.**, Jobe, Z.R., and Covault, J.A., 2014, Measuring the Number of Turbidity Currents that Pass Through Submarine Channels: International Sedimentological Congress, Geneva, Switzerland

*Daniels, B.G., Hubbard, S.M., Stright, L., **Romans, B.W.**, and *Remichen, A.P., 2014, Downslope variations in slope channel body stacking patterns in outcrop, Magallanes foreland basin, Chile: Canadian Society of Petroleum Geologists Annual Convention, Calgary

*Reimchen, A.P., Hubbard, S.M., *Daniels, B.G., **Romans, B.W.**, and Stright, L., 2014, Comparison of Slope Channel Deposits from the Shelf Edge to Lower Slope: Evidence for Changes in Erosion, Sediment Transfer, and Deposition (Magallanes Basin, Chile): Canadian Society of Petroleum Geologists Annual Convention, Calgary

Auchter, N.C., **Romans, B.W.**, Hubbard, S.M., Stright, L., *Reimchen, A.P., and *Daniels, B.G., 2014, Slope Evolution Revealed by Analysis of Sandstone Body Architecture, Tres Pasos Formation at Cerro Mirador, Chile: AAPG Annual Convention and Exhibition, Houston

Boyle, P.R., **Romans, B.W.**, and IODP Expedition 342 Scientists, 2014, Investigating Slope-Parallel Processes in Mud-Dominated Depositional Systems Through Seismic Stratigraphic Mapping of Contourite Drifts: Newfoundland Ridge, Offshore Canada: AAPG Annual Convention and Exhibition, Houston

*Daniels, B.G., Hubbard, S.M., Stright, L., **Romans, B.W.**, *Remichen, A.P., and Auchter, N.C., 2014, Channel Architecture and Facies Variability along an 8 km-long Downslope Transect of the Figueroa Cliniform, Tres Pasos Formation, Chile: AAPG Annual Convention and Exhibition, Houston

*Jackson, A., *Daniels, B.G., Stright, L., Hubbard, S.M., and **Romans, B.W.**, 2014, Characterizing static and dynamic reservoir connectivity of deep-water slope deposits using detailed outcrop-based facies models, Tres Pasos Formation, Chile: AAPG Annual Convention and Exhibition, Houston

Mason, C.C., Auchter, N.C. **Romans, B.W.**, 2014, Architecture, lithofacies, and depositional model for the Ballarat sequence: a mid-Pleistocene fan-delta complex, Panamint Valley, Inyo County, California: AAPG Annual Convention and Exhibition, Houston

*Pemberton, E.A.L., *Fletcher, S.D.T., Hubbard, S.M., Shultz, A., and **Romans, B.W.**, 2014, Modeling the Stratigraphic and Facies Architecture of a Flow-Expansion Zone Constrained with Outcrop Data: AAPG Annual Convention and Exhibition, Houston

Power, B.A., Covault, J.A., Sullivan, M., Zarra, L., Carson, B., **Romans, B.W.**, Clark, J.C., and Fildani, A., 2014, Facies Analysis and Stratigraphic Relationships of Avulsion Splay Successions in the Paleogene Wilcox Formation, Deep Water Gulf of Mexico: AAPG Annual Convention and Exhibition, Houston

*Reimchen, A.P., Hubbard, S.M., Auchter, N.C., *Daniels, B.G., *Jackson, A., Stright, L., **Romans, B.W.**, 2014, The record of sediment transfer on deep-water slopes: Characterization of an aggradational channel complex 24 km from the shelf edge, Tres Pasos Formation Outcrop Belt, Chile: AAPG Annual Convention and Exhibition, Houston

Romans, B.W., 2014, Allogenic and autogenic controls on deep-water stratigraphy: AAPG Annual Convention and Exhibition, Houston (**invited presentation**)

Stright, L., *Jackson, A.A., *Fletcher, S.D.T., **Romans, B.W.**, and Hubbard, S.M., 2014, Are static 2d measures of connectivity a good proxy for 3d dynamic connectivity in deepwater slope channels?: AAPG Annual Convention and Exhibition, Houston

*Jackson, A., Stright, L., Hubbard, S.M., and **Romans, B.W.**, 2014, Quantifying the impact of intra- and inter-channel architecture on reservoir connectivity using outcrop-based modeling workflows, Tres Pasos Formation, Magallanes Basin, Chile: Geological Society London Special Conference, Reducing Subsurface Uncertainty and Risk Through Field-Based Studies, London

2013

Romans, B.W., Castelltort, S., Covault, J.A., and Walsh, J.P., 2013, Building a bridge to deep time: Sedimentary systems across timescales: AGU Fall Meeting, San Francisco, CA, December 9-13, 2013

Boyle, P.R., **Romans, B.W.**, and **IODP Expedition 342 Scientists**, 2013, Cenozoic variations in the Deep Western Boundary Current as recorded in the seismic stratigraphy of contourite drifts: IODP Expedition 342, Newfoundland Ridge, offshore Canada: AGU Fall Meeting, San Francisco, CA, December 9-13, 2013

Scher, H.D., **Romans, B.W.**, Moffett, Z.J., and **IODP Expedition 342 Scientists**, 2013, Changes in sediment provenance to the Southeast Newfoundland Ridge from the late Eocene to the early Oligocene; Northern hemisphere glaciation or deep water circulation?: AGU Fall Meeting, San Francisco, CA, December 9-13, 2013

Junium, C., Bornemann, A., Bown, P., Friedrich, O., Moriyama, K., Kirtland Turner, S., Whiteside, J., and **IODP Expedition 342 Scientists**, 2013, A new Oceanic Anoxic Event 2 record from the central North Atlantic at Southeast Newfoundland Ridge, IODP Expedition 342, Newfoundland Drifts: AGU Fall Meeting, San Francisco, CA, December 9-13, 2013

Penman, D., Kirtland Turner, S., Sexton, P., Norris, R., Zachos, J., Cameron, A., and **IODP Expedition 342 Scientists**, 2013, Direct evidence for a CCD overshoot in the aftermath of the PETM: AGU Fall Meeting, San Francisco, CA, December 9-13, 2013

Power, B., Clark, J.C., Covault, J.A., Fildani, A., Sullivan, M., Carson, B., Zarra, L., and **Romans, B.W.**, 2013, Facies analysis and interpretation of argillaceous sandstone beds in the Paleogene Wilcox Formation, deep water Gulf of Mexico: 2013 International Association of Sedimentologists meeting, Manchester, UK

Covault, J.A., Fildani, A., Hubbard, S.M., and **Romans, B.W.**, 2013, Geomorphic and stratigraphic records of submarine channels: Implications for channel-filling processes and reservoir architecture: Future Directions for Research on Submarine Sediment Flows; Field Workshop, Santa Sofia, Italy, September 9-13 (**invited presentation**)

Scher, H.D., **Romans, B.W.**, Buckley, Jr. W.P., Gibson, K.A., Moffett, Z.J., and **IODP Expedition 342 Scientists**, 2013, Terrigenous input, deep water circulation, and bottom current intensity in the late Eocene to late Oligocene North Atlantic: 11th International Conference on Paleooceanography, Barcelona, Spain, September 1-6, 2013

Liebrand, D., Blum, P., Greenop, R., Kordesch, W., Leonhardt, D., Friedrich, O., Bornemann, A., Jo, K., Wilson, P., Norris, R., and **IODP Expedition 342 Scientists**, 2013, Suborbital variability in Oligocene and Miocene elemental records of the J-Anomaly Ridge Sites: 11th International Conference on Paleocceanography, Barcelona, Spain, September 1-6, 2013

Auchter, N.C., **Romans, B.W.**, Hubbard, S.M., and Stright, L., 2013, Stratigraphic architecture of punctuated deep-water channel migration, Upper Cretaceous Tres Pasos Formation, Magallanes Basin, Chile. AAPG Annual Convention and Exhibition, Pittsburgh

Boyle, P.R., **Romans, B.W.**, and **IODP Expedition 342 Scientists**, 2013, Using seismic expression of contourite drifts to understand mud-dominated depositional systems: Insights from the Newfoundland Ridge, offshore Canada. AAPG Annual Convention and Exhibition, Pittsburgh

*Daniels, B.G., *Macauley, R.V., *Fletcher, S.D.T., *Jackson, A.A., Stright, L., **Romans, B.W.**, and Hubbard, S.M., 2013, Quantifying slope intra-channel facies architecture from outcrop. AAPG Annual Convention and Exhibition, Pittsburgh

*Fletcher, S.D.T., Hubbard, S.M., *Macauley R.V., *Pemberton, E.A., **Romans, B.W.**, and Stright, L., 2013, Investigating down-slope changes in deep-water channel stacking with a 3-D digital outcrop model, Cretaceous Tres Pasos Formation, southern Chile. AAPG Annual Convention and Exhibition, Pittsburgh

*Pemberton, E.A., Hubbard, S.M., *Fletcher, S.D.T., and **Romans, B.W.**, 2013, The stratigraphic architecture preserved at the channel-lobe transition zone: Tres Pasos Formation outcrop belt, southern Chile. AAPG Annual Convention and Exhibition, Pittsburgh

Romans, B.W., Hubbard, S.M., Stright, L., and Auchter, N.C., 2013, Variability in slope sandstone bodies: Linkage to slope morphology and evolution. AAPG Annual Convention and Exhibition, Pittsburgh

Romans, B.W., Fildani, A., Clark, J., Power, B., and Sullivan, M., 2013, Grain-size characteristics of unconfined deep-water deposits in the Quaternary Santa Monica Basin, California: Implications for reservoir quality in distal turbidite systems. AAPG Annual Convention and Exhibition, Pittsburgh

Stright, L., *Jackson, A.A., *Fletcher, S.D.T., **Romans, B.W.**, and Hubbard, S.M., 2013, Are static 2D measures of connectivity a good proxy for 3D dynamic connectivity in deepwater slope channels? AAPG Annual Convention and Exhibition, Pittsburgh

Romans, B.W., Fosdick, J.C., Hubbard, S.M., and Fildani, A., 2013, When sink becomes source: Importance of sediment recycling in linked orogen-basin systems: EGU General Assembly, Vienna, Austria; EGU2013-14242 (**invited presentation**)

2012

Romans, B.W. and Covault, J.A., 2012, Influence of sediment routing morphology and grain-size partitioning on deep-marine stratigraphic records: Insights from Quaternary systems of southern California. GSA Annual Meeting, Charlotte, NC, November 4-7, 2012.

Covault, J.A., **Romans, B.W.**, Fildani, A., Madof, A., Harris, A., Pyrcz, M., and Sun, T., 2012, Sediment budget framework for source to sink predictions. Meeting of Young Researchers in Earth Sciences (MYRES), Salt Lake City, UT, August 8-12, 2012.

Fosdick, J.C., Grove, M., Graham, S.A., Hourigan, J., Lovera, O., and **Romans, B.W.**, 2012, Detrital thermochronologic record of sedimentary provenance, exhumation, and orogenesis in Patagonia. Meeting of Young Researchers in Earth Sciences (MYRES): The Sedimentary Record of Landscape Dynamics, Salt Lake City, UT, August 8-12, 2012.

Romans, B.W. and Covault, J.A., 2012, Comparing stratigraphic records in a multi-sink system: Influence of sediment routing on grain-size partitioning and sediment budget. Meeting of Young Researchers in Earth Sciences (MYRES): The Sedimentary Record of Landscape Dynamics, Salt Lake City, UT, August 8-12, 2012.

Fosdick, J.C., Grove, M., Hourigan, J., Lovera, O., **Romans, B.W.**, and Graham, S.A., 2012, Using detrital thermochronology and thermal modeling to constrain basin burial, orogenic exhumation, and paleogeography of the Magallanes Basin, southern Andes. AAPG Annual Convention and Exhibition, Search and Discovery 90142.

2011

Fildani, A., Covault, J.A., Maier, K.L., Hubbard, S.M., **Romans, B.W.**, and Rowland, J.C., 2011, Erosion at inception of deep-sea channels. Geological Society London: Internal architecture, bedforms, and geometry of turbidite channels. London, June 20-21 (**invited presentation**).

Hubbard, S.M., Fildani, A., Covault, J.A., **Romans, B.W.**, Champion, K., and Macauley, R.V., 2011, Deciphering a more complete record of sediment transfer across basin margin slopes. Geological Society London: Internal architecture, bedforms, and geometry of turbidite channels. London, June 20-21.

Romans, B.W., Fildani, A., Covault, J.A., Sullivan, M., Clark, J., Power, B., Pyrcz, M., Bracken, B., Willis, B., and Payenberg, T., 2011, Remembering the source when applying source-to-sink concepts in clastic stratigraphy. AAPG Annual Convention, Houston, TX, April 10-13, 2011.

Covault, J.A., Craddock, W.H., **Romans, B.W.**, and Fildani, A., 2011, Terrestrial sediment flux; the importance of timescale of observation and drainage-basin size: Geophysical Research Abstracts, v. 13, EGU2011-7804.

Graham, S.A., **Romans, B.W.** (presenter), and Covault, J.A., 2011, Source-to-sink in the stratigraphic record: Capturing the long-term, deep-time evolution of sedimentary systems: AGU Chapman Conference *Source-to-Sink Systems Around the World and Through Time*, Oxnard, CA, January 24-27, 2011.

Romans, B.W., Covault, J.A., Fildani, A., Hilley, G.E., and Graham, S.A., 2011, Linking terrestrial denudation to marine deposition for the Holocene Santa Clara River sediment-routing system: AGU Chapman Conference *Source-to-Sink Systems Around the World and Through Time*, Oxnard, CA, January 24-27, 2011.

2010

Fosdick, J.F., **Romans, B.W.**, Grove, M.J., and Hourigan, J., 2010, Coupled detrital zircon U/Pb-He thermochronologic record of thrust belt unroofing in the Magallanes Basin, Patagonian Andes. GSA Annual Meeting, Denver, CO, October 31-November 3, 2010.

Romans, B.W., Covault, J.A., and Fildani, A., 2010, Allogenic and autogenic forcings within the context of sediment-routing systems: Examples from southern California. AAPG Annual Convention, New Orleans, LA, April 11-14, 2010.

Romans, B.W., Fildani, A., Hubbard, S.M., Covault, J.A., Graham, S.A., and Fosdick, J.F., 2010, The influence of tectonic evolution on deep-water stratigraphic architecture, Magallanes Basin, Chile. AAPG Annual Convention, New Orleans, LA, April 11-14, 2010.

Covault, J.A., Hilley, G.E., **Romans, B.W.**, Graham, S.A., and Fildani, A., 2010, Steady transfer of sediment from drainage basins to the deep ocean over thousands of years of climate change. AAPG Annual Convention, New Orleans, LA, April 11-14, 2010.

Hubbard, S.M., Macauley, R.V., Miles, B.D., Schroeder, R., Fildani, A., Clark, J., **Romans, B.W.**, Covault, J.A., and McHargue, T.R., 2010, Deep-water channel development in proximity to the channel-lobe transition: An outcrop example. AAPG Annual Convention, New Orleans, LA, April 11-14, 2010.

Covault, J.A., **Romans, B.W.**, Fildani, A., McGann, M.M., and Graham, S.A., 2010, Rapid climatic signal propagation from source-to-sink in a southern California sediment-routing system. AAPG Annual Convention, New Orleans, LA, April 11-14, 2010.

2009

Romans, B.W., Covault, J.A., and Fildani, A., 2009, High-frequency allogenic forcings on the Holocene stratigraphy of the Santa Monica Basin, California: AGU Fall Meeting, San Francisco, CA, December 14-18, 2009.

Romans, B.W., Fildani, A., Graham, S.A., Covault, J.A., Fosdick, J.C., and Hubbard, S.M., 2009, Importance of predecessor basin history on provenance of the Magallanes retroarc foreland basin, Chile (50°-52°S): GSA Annual Meeting, Portland, OR, October 18-21, 2009.

Fosdick, J.C., **Romans, B.W.**, Fildani, A., Calderon, M., Bernhardt, A., and Graham, S.A., 2009, Shortening under extended circumstances: regional structure of the Cretaceous-Neogene Patagonian fold-thrust belt and Magallanes Basin, Chile and Argentina (51°30'S): GSA Annual Meeting, Portland, OR, October 18-21, 2009.

Covault, J.A., Fildani, A., and **Romans, B.W.**, 2009, The natural range of submarine canyon-and-channel longitudinal profiles: AGU Fall Meeting, San Francisco, CA, December 14-18, 2009.

Hogan, P.J., **Romans, B.W.**, Varnell, S., and Broughton, A., 2009, Sandy turbidite delivery and distribution patterns in an enclosed southern California Continental Borderland basin: Submarine Mass Movements and Their Consequences, 4th International Symposium, Austin, TX, November 2009.

Posamentier, H.W., Clark, J., Covault, J.A., Fildani, A., McHargue, T.R., Pyrcz, M.J., **Romans, B.W.**, and Sullivan, M.D., 2009, From staging area to sink: the linkage of shelf events and associated deep-water deposits: AAPG Annual Convention, Denver, CO, June 7-10, 2009.

Covault, J.A., and **Romans, B.W.**, 2009, Growth patterns of deep-sea fans revisited: Turbidite-system morphology in confined basins of the Quaternary California Borderland: AAPG Pacific Section Annual Convention, Ventura, CA, May 2-6, 2009.

McHargue, T.R., Clark, J., Fildani, A., Levy, M., **Romans, B.W.**, Covault, J.A., Sullivan, M.D., Pyrcz, M.J., and Posamentier, H.W., 2009, Allocyclicity of sediment volume and composition provide the basis for a predictive model of turbidite channel architectures: AAPG Pacific Section Annual Convention, Ventura, CA, May 2-6, 2009.

Romans, B.W., Hubbard, S.M., Fildani, A., Covault, J.A., and Armitage, D.A., 2009, Architecture and stratigraphy of a high-relief prograding slope system in the northern Magallanes foreland basin: Tres Pasos Formation from Cerro Divisadero to the Sierra Contreras: SEPM Research Conference, Magallanes Basin, Ultima Esperanza District, Chile, February 22-28, 2009.

Covault, J.A., and **Romans, B.W.**, 2009, Outcrop expression of a continental-margin-scale shelf-edge delta from the Cretaceous Magallanes Basin, Chile: SEPM Research Conference, Magallanes Basin, Ultima Esperanza District, Chile, February 22-28, 2009.

2008

Clark, J.D., Pyrcz, M.J., **Romans, B.W.**, Fildani, A., Sullivan, M.D., McHargue, T.R., Sullivan, M.D., Posamentier, H.W., and Levy, M.E., 2008, Event-based modeling of deep-water slope channel systems: calibrating experimental results with observed stratigraphic architecture.

Hubbard, S.M., Fildani, A., **Romans, B.W.**, Covault, J.A., Drinkwater, N.J., McHargue, T.R., Sullivan, M.D., and Posamentier, H.W., 2008, Supplementing subsurface characterization with insights from outcrop: Sandstone distribution in slope deposits of the Tres Pasos Formation, Chile: Geological Society of America, Fall Meeting, Houston, Texas.

Fildani, A., Pyrcz, M.J., **Romans, B.W.**, McHargue, T.R., Sullivan, M.D., Clark, J.D., Drinkwater, N.J., and Posamentier, H.W., 2008, Event-based forward modeling: visualizing and predicting turbidite channel architecture: Geological Society of America, Fall Meeting, Houston, Texas.

Fosdick, J.C., Bernhardt, A., **Romans, B.W.**, Fildani, A. and Graham, S.A., 2008, Exhumation of the Patagonian Cordillera: Insights from detrital thermochronologic analysis of the Magallanes Basin, southern Chile: 11th Annual Conference on Thermochronometry, September 2008, Anchorage, Alaska.

Hogan, P.J., Lane, A., Hooper, J. Broughton, A., and **Romans, B.W.**, 2008, Geohazard challenge of the Woodside OceanWay Secure Energy LNG development, offshore southern California: Offshore Technology Conference, Houston, TX.

Romans, B.W., Covault, J.C., Hubbard, S.M., and Fildani, A., 2008, Sedimentologic processes and stratigraphic record of linked delta-continental slope progradation, Magallanes Basin, Chile: American Association of Petroleum Geologists Hedberg Research Conference, Ushuaia, Argentina.

Romans, B.W., Hubbard, S.M., and Covault, J.C., 2008, Application of turbidite bed amalgamation metric to slope deposits of the Tres Pasos Formation of southern Chile: Implications for evaluating reservoir connectivity and sedimentary body architecture from one-dimensional data: American Association of Petroleum Geologists Annual Convention Official Program, San Antonio, Texas.

2007

Romans, B.W., Normark, W.R., McGann, M.M., Covault, J.A., and Graham, S.A., 2007, Controls on coarse-grained sediment delivery and distribution in the Holocene Santa Monica Basin, California: Implications for evaluating source-to-sink flux at millennial time scales. AGU Fall Meeting.

Romans, B.W. and Normark, W.R., 2007, High-resolution spatial and temporal patterns of sand accumulation on an active highstand submarine fan in Santa Monica Basin, offshore California: Implications for controls on deep-marine sedimentation: American Association of Petroleum Geologists Annual Convention Official Program, Long Beach, California.

2006

Romans, B.W., and Normark, W.R., 2006, Distribution and rates of terrigenous sediment accumulation on the Hueneme submarine fan in the late Holocene (4.3 ka-present), Santa Monica Basin, California: EOS Trans. AGU, 87(52), Fall Meet. Suppl., Abstract OS23A-1633.

Fosdick, J.C., **Romans, B.W.**, and Hubbard, S.M., 2006, Exhumation of the Magallanes foreland basin, Patagonian Andes, Chile (51°S): EOS Trans. AGU, 87(52), Fall Meet. Suppl., Abstract T31C-0457.

Romans, B.W., Fildani, A., Hubbard, S.M., Crane, W.H., and Graham, S.A., 2006, Emplacement of thrust-sheets recorded in Upper Cretaceous basin fill, Magallanes (Austral) Basin, southern Chile: Geological Society of America and Asociacion Geologica Argentina joint meeting, Mendoza, Argentina.

Normark, W.R., Paull, C.K., Ussler, W., Mitts, P., and **Romans, B.W.**, 2006, Redondo and Hueneme sand-rich canyon-fan systems, offshore southern California: EOS Trans. AGU, 87(36), Ocean Sci. Meet. Suppl., Abstract OS45A-02.

2005

Romans, B.W., and Hubbard, S.M., 2005, Facies and architectural complexity within and among outcropping slope channel complexes, Upper Cretaceous Tres Pasos Formation, Sierra de los Baguales, southern Chile: American Association of Petroleum Geologists Annual Convention Official Program, Calgary.

2003

Romans, B.W., and Gardner, M.H., 2003, Patterns of Permian basinal sedimentation in the western Delaware Basin, Cutoff, Brushy Canyon, and Cherry Canyon formations, west Texas: A new stratigraphic model for deep-water clastics: American Association of Petroleum Geologists Annual Convention Official Program, Salt Lake City.