Camelia Cristina Knapp (*formerly Diaconescu*)
V. Brown Monnett Chair, Professor, and Head
Boone Pickens School of Geology
105 Noble Research Center
Oklahoma State University
Stillwater, OK 74078
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EDUCATION:

PhD, Cornell University, Geophysics and Tectonics (2000)

BS-MS, University of Bucharest (Romania), Geophysical Engineering (1988)

RESEARCH INTERESTS:

- Applications of controlled source seismology to the structure, composition, and physical properties of the Earth's crust.
- Petroleum exploration; environmental geophysics; marine geophysics; hydrogeophysics.
- CO_2 sequestration; gas hydrates.

EXPERIENCE:

07/18 - present	Professor and Head, Boone Pickens School of Geology, Oklahoma State University
12/20 - present	Director, Oklahoma Geological Foundation
05/13 - 07/18	Director, Earth Sciences and Resources Institute, USC
01/13 - 07/18	Professor, School of the Earth, Ocean, and Environment, USC
08/09 - 12/12	Associate Professor, Department of Earth and Ocean Sciences, USC
01/03 - 08/09	Assistant Professor, Department of Geological Sciences, USC
06/00 - 12/02	Research Assistant Professor, Tectonics and Geophysics Laboratory, Department of Geological Sciences, USC
08/96 - 05/00	Research Assistant/ Teaching Assistant, Department of Geological Sciences, Cornell University
06/98 - 09/98	Geophysicist, Chevron Overseas Petroleum Inc., USA
08/95 - 06/96	Fulbright Fellow, Cornell University
07/90 – 05/00	Research Scientist, National Institute for Earth Physics, Romania
09/88 - 07/90	Exploration Geophysicist, Prospectiuni. S.A., Bucharest, Romania

AWARDS AND FELLOWSHIPS:

University of South Carolina Mungo Undergraduate Teaching Award, 2018

University of South Carolina Distinguished Undergraduate Research Mentor, 2013

University of South Carolina, Rising Star, 2011

University of South Carolina, African American Professors Program Recognition, 2004

Alien of Extraordinary Ability Status, Section 203 (b) (1) (A), June 2002

Society of Exploration Geophysicists Foundation Scholarship - 1999-2000

British Petroleum - Amoco fellowship – 1998

Fulbright Fellow (Cornell University) – 1995-1996

PROFESSIONAL SERVICE

Board of Directors, Oklahoma Geological Foundation

SE Geological Society of America/ American Association of Petroleum Geologists – Short Course

US Geological Survey, Earthquake Hazards, Panelist

National Science Foundation, Directorate of Geosciences Panelist

American Association of Petroleum Geologists Carbon Capture, Utilization, and Storage Committee

Society of Exploration Geophysicists (SEG), Scholarship Committee (Chair, 2019)

Society of Exploration Geophysicists (SEG) Committee on University and Student Programs

Society of Exploration Geophysicists (SEG) Carbon Capture, Utilization, and Storage (CCUS) Committee

Society of Exploration Geophysicists (SEG) Carbon Capture, Utilization, and Storage (CCUS) Task Force

Society of Exploration Geophysicists (SEG) Research Committee

Society of Exploration Geophysicists (SEG) Outreach Subcommittee

Science Foundation of Ireland, Directorate of Geosciences, Panelist

University of South Carolina Geophysical Society, SEG Student Chapter, Faculty advisor

IRIS-PASSCAL Standing Committee

Continental Structure and Evolution EarthScope Working Group

South Carolina Science and Engineering Fair Judge

South Carolina Junior Science and Humanities Symposium Reviewer

Midlands Arts Academy Charter School, Planning Committee

East Point Academy Charter School, Vice-Chair of the School Improvement Council

UNIVERSITY SERVICE

Undergraduate Director, Department of Geological Sciences, USC

University Committee for Tenure and Promotion (panel chair), USC *("… shall publish guidelines for departmental tenure and promotion criteria and procedures, approve departmental tenure and promotion criteria and procedures, review all tenure and promotion cases, and make tenure and promotion recommendations to the president.")*

Faculty Welfare Committee (co-chair), USC *("… shall consider university policies and the enforcement of policies regarding the welfare of the faculty, such as faculty salaries, other compensation and benefits, and any matters affecting the workplace environment.")*

Faculty Budget Committee (chair), USC *(" … serves as a liaison between the university administration and the university faculty on matters pertaining to the university budget, advocates the faculty perspective on matters of budget and budgetary policy, and provides a venue for discussing faculty questions and concerns about the university budget and budgeting process.")*

Faculty Advisory Committee (co-chair), USC *("… advise the faculty and administration on all matters pertaining to the general policies and operations…")*

Carolina Core - Scientific Literacy (chair), USC *(The Carolina Core develops competency in communication, analytical reasoning and problem-solving, scientific literacy, information literacy and the arts. Topics in global citizenship and multicultural understanding as well as values, ethics and social responsibility are explored.")*

Udall Scholarship Committee, USC

Fulbright Evaluation Committee, USC

Women Faculty Organization Steering Committee, USC

College of Arts and Sciences Computing Committee, USC

Women's Connections Mentoring Network, USC

GRADUATE STUDENTS:

Name	Degree	Year	Topic	Current Position
Sreejesh Sreedhar	PhD	Pres.	Implementation of Artificial Intelligence in Geophysical Application for Carbon Storage.	OSU
Victor Fakeye	MS	Pres.	Geophysical Characterization for Carbon Storage Resources in Oklahoma	OSU
Paiden Pruett	MS	Pres.	Integrated Seismic Analysis on the Cleveland and Skinner Formations: a Model-Based Inversion Predicting Reservoir Properties	OSU
Saiful Alam	PhD	Pres.	Onshore-Offshore Southeastern United States Analysis of Carbon Storage	OSU
Andrew Bean	MS	2020	Petrophysical Analysis of Mesozoic-Cenozoic Formations on the Atlantic Outer Continental Shelf for Carbon Storage	DOE/ Battelle
Ali Aljanabi	PhD	Pres.	Seismic Stratigraphic Analysis of the Southern Atlantic Continental Shelf	OSU
John Ollmann	MS	2018	Velocity Model for CO_2 Sequestration in the Atlantic Continental Margin	Fenix Outdoor AG
Gokce Astekin	MS	2020	3D AVO of the Woolsey Mound, Gulf of Mexico	OSU
Darrell Terry	PhD	2019	Buoyancy-Driven Flow and Methane-Hydrate Systems	PredaSAR
Khaled Almutairi	PhD	2018	Offshore Middle and South Atlantic Evaluation of the Cenozoic Formations for CO_2 Storage	King Abdulaziz City for Science and Technology (KACST)
Abdullah Alhashel	MS	2016	Quantitative Reservoir Characterization using Seismic AVO and Impedance Inversion in the Lower Permian Unayzah Formation in Majhol Field, Saudi Arabia	Saudi Aramco
Ali Alsalem	MS	2016	Seismic Depth Imaging in Anisotropic Media, Saudi Arabia	Saudi Aramco
Amanda Williams	MS	2016	3-D Thermobaric Modeling of Woolsey Mound Hydrate System: Gulf of Mexico	USC
Daniel Brantley	PhD	2015	3-D Numerical Simulation of Carbon Dioxide Injection into the South Georgia Rift Basin for Geologic Storage	ESRI-SC
Craig Cunningham	MS	2013	Seismic Characterization of the J-reflector near the Mesoseismal Area of the 1886 Charleston Earthquake for lithologic Constraints	Concho
Walter Anderson	MS	2013	Amplitude vs. Offset Effects on Gas Hydrates at Woolsey Mound, Gulf of Mexico	WesternGeco
O. M. Akintunde	PhD	2013	Subsurface Imaging and Petrophysical Analysis of the South Georgia Rift Basin, SC	Leidos
Olga Nedorub	MS	2012	New Constraints on the Age and Magnitude of Reactivation of the Camden Fault, South Carolina	Apache

Abby S. Alkire (co-advised)	PhD	2011	Multi Analyses Approach to Determine the Recent (<6000 years) Depositional History of Thousand Acre Marsh	Alliance Consulting
Antonio Cameron	PhD	2010	New Approaches in Hydrogeophysical Model Predictions: Case Studies from the P Reactor Area, Savannah River Site, South Carolina	ExxonMobil
Hassan Hassan (co-advised)	PhD	2010	Hydrocarbon Potential of NE Libya: Sedimentology, Seismic Interpretation and Petroleum System Study	British Petroleum
C. Chance Amos	MS	2009	Seafloor slumping in the South Caspian Sea: Evidence for massive gas hydrate dissociation during the late Pleistocene	Hess
Adrian Addison	PhD	2009	Improvements in Near-surface Geophysical Applications for Hydrogeological Parameter Estimation	ESRI-SC
Bradley Battista	PhD	2007	Advanced Nonlinear Signal Processing Tools for use with High-Resolution Seismic Reflection and Ground Penetrating Radar Data	Battlespace
Dana Mucuta	PhD	2007	Spatial Relationships between Crustal Structures and Mantle Seismicity in the Vrancea Seismogenic Zone of Romania: Implications for Geodynamic Evolution	ExxonMobil

UNDERGRADUATE STUDENT RESEARCHERS

Megan Garrett (OSU)
Jamie Templeton, Geophysics (OSU)
Gabrielle Herrin, Geophysics, 2019
Whitley Parker, Geophysics, 2018
Jacob Burstein, Geophysics, 2018
Jahleel Stone, Geophysics, 2017
Rachelle Reisinger, Geophysics, 2017
Ethan Anderson, Geophysics, 2017
Patrick Nebel, Geophysics, 2016
Joseph Stone, Geology/ Geophysics, 2016
Elizabeth Yankovsky, Geophysics, 2015
Marybeth Lundquist, Geophysics, 2015
Patrick Duff – Geophysics, 2012
Christopher Bruce – Geophysics, 2011
Loren Zeigler – Geophysics, 2011
Jose Manuel Bacale – Geophysics, 2008
Jorge Botala – Geophysics, 2008
Rosendo King, Geophysics, 2008
Ignacio Motobe, Geophysics, 2008
Amy Fenton – Geophysics, 2005
Christopher Mitchell – Geology, 2005

Curtis Gebhard – Geology, 2005

Logan Hansen – Geophysics, 2004

Andrew Frasetto, Geophysics, 2004

POSTDOCTORAL FELLOWS:

Robert Trenkamp – 2004-2006

Bradley Battista – 2008

Adrian Addison – 2009

TEACHING:

University of South Carolina:

GEOL 101 – Introduction to the Earth

GEOL 505 – Fundamentals of Geophysics I

GEOL 548 – Environmental Geophysics

GEOL 551 – GIS for Geological Sciences

GEOL 554 – Applied Seismology

GEOL 765 – Exploration Seismology

GEOL 735 – Regional Tectonics

GEOL 766 – Advanced Seismology

GEOL 888 – Data Presentation Workshop

Oklahoma State University:

GEOL 4643/ 5643 - Seismic Data Processing

SOCIETY MEMBERSHIP:

Society of Exploration Geophysicists

American Association of Petroleum Geologists

Geological Society of America

American Geophysical Union

Southeastern Division of the Association of American Geographers

Carolina Geological Society

LANGUAGES:

Romanian, English, Italian

RESEARCH GRANTS:

1. NSF RII Track-2 FEC: Aritificial Intelligence Research for Attaining a Carbon-neutral Tomorrow (AIR-ACT), C. Knapp, Jingyi Chen, Dario Grana, Nicholas Hayman, and Yevhen Holubnyak, 9/1/2021 - 8/31/25, $5,942,594 (pending).
2. Pedagogical University – Rovuma University - Oklahoma State University Geosciences Partnership, C. Knapp, Mohamed Abdelsalam, and J. Knapp, 08/2021 - 07/2024, $1,175,386.
3. Department of Energy, Southeast Regional Carbon Storage Partnership: Phase IV, Southern States Energy Board (lead), J. Pashin, C. Knapp, J. Knapp, and Priyank Jaswal, 10/01/2019 – 09/30/2024, $878,228.

4. Department of Energy, Southeast Regional Carbon Storage Partnership: Offshore Gulf of Mexico (SECARB Offshore Partnership), through Southern States Energy Board, C. Knapp, and J. Knapp, $196,241, 09/01/2019 – 08/30/2022.
5. Southeast Regional Carbon Storage Partnership: Offshore Gulf of Mexico, U.S. Department of Energy ($4M total; $25,000 for ESRI). PIs: Lead: Southern States Energy Board; USC: James Knapp (EOS), Camelia Knapp (ESRI-SC, EOS), Duke Brantley (ESRI-SC), Mar. 1, 2018 – Feb. 28, 2022.
6. Department of Energy, Southeast Offshore Storage Resource Assessment (SOSRA), J. Knapp, C. Knapp, V. Lakshmi, and D. Brantley (USC); Collaboration with Virginia Tech and Oklahoma State Univ. Oct. 2015 – Sept. 2019. $4,000,000 total, $1,000,000 for USC.
7. NSF, Targeted Infusion Project: Building an interdisciplinary geosciences and geospatial intelligence curricula through applied training in mapping and spatial reasoning, C. Kantor (Claflin Univ), C. Knapp, and N. Pricope (UNC-W). 9/1/2015 – 8/31/2018. Total: $332,375 ($55,566 for Knapp).
8. Bureau of Ocean Energy Management (BOEM), Atlantic Offshore Wind Energy Development: Geophysical Mapping and Identification of Paleolandscapes and Historic Geophysical Mapping and Identification of Paleolandscapes and Historic Shipwrecks Offshore South Carolina, Paul T. Gayes (CCU), Camelia Knapp (USC), and James Spirek (USC), 11/1/2014 – 06/30/2018, $570,000.
9. Plume Structures in the Central Aleutian Basin, USC Magellan Scholarship, C. Knapp and Elizabeth Yankovsky, $3,000.
10. Full Waveform Elastic Inversion Code Development for Gas Hydrate Research. C. Knapp, USC ASPIRE: 07/01/2012 – 06/30/2014, $14,991.
11. Time-Lapse Seismic Monitoring of a Cold Seep Area in the Northern Gulf of Mexico (Woolsey Mound, MC118), C. Knapp (lead-PI), J. Knapp (co-PI), Department of Energy, $25,000, August 1, 2012 - July 31, 2013.
12. Geologic Characterization of the South Georgia Rift Basin for Source Proximal CO2 Storage, Camelia Knapp co-PI, with John Shafer (PI), Michael Waddell (co-PI), and James Knapp (co-PI), Department of Energy, $9,950,639, Jan.1, 2010 – Dec. 31 2012.
13. Geological and Geophysical Baseline Characterization of Gas Hydrates at MC118, Gulf of Mexico, C. Knapp (lead-PI), J. Knapp (co-PI), Department of Energy, $284,899, August 1, 2009 - July 31, 2011.
14. Processing and Interpretation of TGS-NOPEC Industry Seismic Data and Integration with Existing Surface-Source/ Deep-Receiver (SSDR) High Resolution Seismic Data at MC118, Gulf of Mexico, Camelia Knapp (sole PI), Department of Energy, $196,517, 15 May 08 – 14 Sept. 09.
15. Absheron Allochthon: Evidence for South Caspian Seafloor Deformation in Response to Climatically Driven Hydrate Dissociation, Camelia Knapp (sole PI), Petroleum Research Fund of the American Chemical Society, $119, 787, 09/01/06 – 08/31/11.
16. Gas Hydrates of the Northern Gulf of Mexico from Modern Processing of High Resolution Acoustic Line Array Data: Structural Control on Seafoor Deformation and Slope, Camelia Knapp (sole PI), U.S. Minerals Management Services, $45,152, 07/01/07 - 06/30/08.
17. Acquisition and Processing of Ultra-High Resolution Horizontal and Vertical Seismic Data in the Northern Gulf of Mexico for Gas Hydrate Investigations, Camelia Knapp (sole PI), U.S. Minerals Management Services, $51,502, 07/01/06 – 06/30/07.
18. Integrated Hydrogeophysical and Hydrogeologic Driven Parameter Upscaling for Dual-Domain Transport Modeling, Camelia Knapp (co-PI), John M. Shafer - PI (ESRI-USC), SRNL, LBNL, Department of Energy, $1,650,000, 10/01/05 – 02/28/09.
19. The Use of Non-Invasive Geophysical Methods for Identifying Possible Karst Induced Stability Problems in Holcim Inc. Quarry Near Holly Hill, South Carolina, Camelia Knapp (co-PI), Mike Waddell (ESRI, PI), Holcim (U.S. Inc.), $85,000, 01/02/07 - 01/01/08.
20. Ground-Penetrating Radar Surveys in the Congaree National Park, Camelia Knapp (co-PI), Art Cohen (PI), SC Department of Natural Resources, $7,000, 01/01/2006 – 04/01/2007.

21. Origin and Crustal Expression of Active Lithospheric Delamination in the Vrancea Zone, Romania: Project DRACULA, James Knapp (PI), Camelia Knapp (co-PI), NSF – Tectonics, $360,000, 1 June 2003-31 May 2006.
22. Collaborative Research: Acquisition of a Dual, Complementary Ground Penetrating Radar System for Geoscience Research and Teaching in South Carolina, Camelia Knapp (PI), NSF - Instrumentation and Facilities, $84,396, 15 Jan. 2004 – 31 Dec. 2006.
23. Submarine Landslide of the Caspian Sea: Evidence for Seafloor Deformation in Response to Climatically Driven Hydrate Dissociation, Camelia Knapp (sole PI), Research and Productive Scholarship, USC, $14,886, 01 April 2004 – 30 June 2006.
24. Assessment of Gas Hydrate Deposits in the Gulf of Mexico from Industry Processing of Vertical Line Array Data, .S. Minerals Management Services, Camelia Knapp (sole PI), $45,152, 01 June 2005 – 31 May 2006.
25. Acquisition and Processing of Ultra-High Resolution Horizontal and Vertical Seismic Data in the Northern Gulf of Mexico for Gas Hydrate Investigations, U.S. Minerals Management Services, Camelia Knapp (sole PI), $51,502, 07/01/06 – 06/30/07.
26. Project 1: The Use of Non-invasive Geophysical Methods for Identifying Possible Karst Induced Stability Problems in Holcim Inc. Quarry Near Holly Hill, SC, Holcim (US Inc.), Camelia Knapp (co-PI),w/ Mike Waddell (ESRI), total of $89,652 from which $9,955 for C. Knapp, 01/02/2006 – 12/31/2006.
27. Pilot Project to Investigate the Effectiveness of Certain Geophysical Techniques in Identifying Karst in a Quarry Near Holly Hill, South Carolina, Holcim (US Inc.), Camelia Knapp (co-PI) w/ Mike Waddell (ESRI), total of $38,000, from which $ 7,411 for C. Knapp, 10/08/2005 – 12/31/2005.
28. Crustal Expression of the Vrancea Seismogenic Zone of Romania: Integration of Active and Passive Source Seismological Data, Petroleum Research Fund of the American Chemical Society, Camelia Knapp (Diaconescu), $35,000, 1 August 2002-31 July 2005.
29. Assessment of Gas Hydrate Deposits in the Gulf of Mexico from Industry Processing of Vertical Line Array Data, U.S. Minerals Management Services, Camelia Knapp (sole PI), $79,169, 01 June 2004 – 31 May 2005.
30. Spatial Distribution and Thickness of Gas Hydrate Deposits in the Gulf of Mexico from Vertical Line Array Data, Minerals Management Services of the Department of the Interior, $25,000, 1 June 2003-31 May 2004.

BOOKS:

Timothy Collett, Arthur Johnson, Camelia C, Knapp, and Ray Boswell (co-editors), 2009, "Natural Gas Hydrates: Energy Resource Potential and Associated Geologic Hazards", American Association of Petroleum Geologists (AAPG) Memoir Special Volume 89.

PUBLICATIONS (* denotes C. Knapp's student):

1. Darrell Terry, Camelia C. Knapp, and Amanda Williams, Three Dimensional Thermobaric Modeling of a Gas Hydrate System, Woolsey Mound, Gulf of Mexico, *Marine and Petroleum Geology (in review).*
2. Olusoga M. Akintunde*, Camelia C. Knapp, and James H. Knapp, Permeability Prediction in the South Georgia Rift Basin – Applications to CO_2 Storage and Regional Tectonics, *Environmental Earth Sciences* (*in review*).
3. Antonio Cameron and Camelia C. Knapp, New Approach to Predict Hydrogeological Parameters Using Shear Waves from the Multichannel Analysis of Surface Waves Method, *Journal of*

4. Mohamed A. El-Dakak, Tharwat A. Abdelfattah, Ahmed I. Diab, Mohamed A. Kassem, and Camelia C. Knapp, Integration of borehole depth imaging and seismic reflection results in reservoir delineation: An example from The Alam El Bueib 3C field, Northern Western Desert, Egypt, *Journal of African Earth Sciences*, 184, December 2021, https://doi.org/10.1016/j.jafrearsci.2021.104322.
5. Adil Alshammari, Venkataraman Lakshmi, Duke Brantley, Camelia Knapp, and James H. Knapp, Evaluation of the Impact of Geomechanic and Geochemical Variability on Offshore CO_2 Storage in the South Georgia Embayment, *Modern Environmental Science and Engineering* (*in press*)
6. Darrell A. Terry* and Camelia C. Knapp, Identification of Bottom Simulating Reflectors in Far-Offset Seismic Images, *Interpretation*, Vol.9 (2), doi.org/10.1190/INT-2020-0168.1.
7. Darrell A. Terry* and Camelia C. Knapp, 2018, A Unified Effective Medium Model for Gas Hydrates in Sediments, *Geophysics*, 83 (6), pp.317-332.
8. Ethan Anderson*, Duke Brantley*, Camelia C. Knapp, Bradley Battista*, Christina Hefron, 2018, Geomorphological Assessment of the North Myrtle Beach (SC) Continental Shelf for Wind Energy Development, *Southeastern Geographer*, 58(2), pp. 181-192.
9. Khaled F. Almutairi*, Camelia C. Knapp, James H. Knapp and Darrell A. Terry*, 2017, Assessment of Upper Cretaceous Strata for Offshore CO_2 Storage, Southeastern United States, Modern Environmental Science and Engineering, 3(8), 532-552, Doi: 10.15341/ mese (2333-2581)/08.03.2017/004.
10. Elizabeth A. Yankovsky*, Darrell A. Terry* and Camelia C. Knapp, 2015, Seismic and Gravity Evidence for Methane-Hydrate Systems in the Central Aleutian Basin, Int. J. Earth Sci Geophys 1:001.
11. Leonardo Macelloni, Carol B Lutken, Sabodh Garg; Antonello Simonetti; Marco D'Emidio; Rachel Wilson; Sleeper Ken; Lapham Laura; Trevor Lewis; Marco Pizzi; James H Knapp; Camelia C Knapp; Thomas M McGee, Heat-Flow Regimes and the Hydrate Stability Zone of a Transient, Thermogenic, Fault-Controlled Hydrate System (Woolsey Mound Northern Gulf of Mexico), *Marine and Petroleum Geology*, 59 (2014), 491-504.
12. Olusoga M. Akintunde*, Camelia C. Knapp, James H. Knapp, 2014, Tectonic significance of porosity and permeability regimes in the red beds formations of the South Georgia Rift Basin, *Tectonophysics* 632 (2014) 1–7.
13. J. A. Salazar, J. H. Knapp, Camelia C. Knapp, D. R. Pyles, 2014, Salt tectonics and Pliocene stratigraphic framework at MC-118, Gulf of Mexico: An integrated approach with application to deep-water confined structures in salt basins, *Marine and Petroleum Geology*, 50 (2014) 51-67.
14. A. Simonetti, J. H. Knapp, K. Sleeper, C. B. Lutken, L. Macelloni, C. C. Knapp, 2013, Spatial distribution of gas hydrates from high-resolution seismic and core data, Woolsey Mound, Northern Gulf of Mexico, *Marine and Petroleum Geology*, v. 44, pp. 21-33.
15. O. M. Akintunde*, C. Knapp, and J. Knapp, 2013, Petrophysical characterization of the South Georgia Rift Basin for supercritical CO_2 storage: a preliminary assessment, *Environ Earth Sci.*, DOI 10.1007/s12665-013-2355-6.
16. O. M. Akintunde*, C. Knapp, and J. Knapp, and D. Heffner, 2013, New constraints on buried Triassic basins and regional implications for subsurface CO2 storage from the SeisData6 seismic profile across the Southeast Georgia coastal plain, *Environmental Geosciences*, 20 (1), 17–29.
17. L. Macelloni, A. Simonetti, J. H. Knapp, Camelia C. Knapp, Carol B Lutken, 2012, Multiple resolution seismic imaging of a shallow hydrocarbon plumbing system, Woolsey Mound, Northern Gulf of Mexico. *Marine and Petroleum Geology*, v. 38, pp. 128-142.

18. A. Springer-Alkire*, P. T. Gayes, D. F. Williams, and Camelia Knapp, 2012, Radiocarbon and Stratigraphic Analyses of Thousand Acre Marsh, Georgetown, SC, to Determine Depositional History and the Effects of Sea-Level Rise, *South Carolina Geology*, vol. 48, pp. 1-10.

19. D. M. Heffner, J. H. Knapp, O. M. Akintunde*, and Camelia C. Knapp, 2012, Preserved Extent of Jurassic Flood Basalt in the South Georgia Rift: a New Interpretation of the J-Horizon, *Geology*, v. 40, no. 2, p. 167-170.

20. L. Macelloni, B. M. Battista*, and Camelia C. Knapp, 2011, Optimal Filtering High-Resolution Seismic Reflection Data Using a Weighted-Mode Empirical Mode Decomposition Operator, *Journal of Applied Geophysics*, Doi:10.1016/ j.jappgeo. 2011.09.018.

21. A. E. Cameron*, Camelia C. Knapp, Adrian D. Addison*, and John M. Shafer, 2010, Structural and Stratigraphic Control on the Migration of a Contaminant Plume at the P Reactor Area, Savannah River Site, South Carolina, 2010*, Environmental Geosciences*, vol. 17, no. 2, p. 77-98.

22. M. A. Fillerup, J. H. Knapp, Camelia C. Knapp, and V. Raileanu, 2010, Mantle Earthquakes in the Absence of Subduction? Continental Delamination in the Romanian Carpathians, *Lithosphere*, vol. 2, no. 5, 333-340.

23. A.L. Springer*, C. Knapp, P.T. Gayes and L.R. Gardner, 2010. The Holocene Depositional History of Thousand Acre Marsh (Georgetown County, SC, USA) from Correlation of Ground Penetrating Radar with Subsurface Stratigraphy, *Southeastern Geology Journal* 47(2); 95-104.

24. B. M. Battista*, Adrian D. Addison*, and Camelia C. Knapp, 2009, Empirical Mode Decomposition Operator for Dewowing GPR Data, *Journal of Environmental and Engineering Geophysics*, Volume 14, Issue 4, pp. 163-169.

25. A. D. Addison*, B. M. Battista*, and Camelia. C. Knapp, 2009, Improved Hydrogeophysical Parameter Estimation from Empirical Mode Decomposition Processed Ground Penetrating Radar Data, *Journal of Environmental and Engineering Geophysics*, Volume 14, Issue 4, pp. 171–178.

26. Dana M. Enciu-Mucuta*, Camelia C. Knapp, and James H. Knapp, 2009, Revised Crustal Architecture of the Southeastern Carpathian Foreland from Active and Passive Seismic Data, *Tectonics*, vol. 28, TC4013, doi:10.1029/ 2008TC002381.

27. A. D. Addison*, M. G. Waddell, Camelia C. Knapp, D. Brantley*, and J. M. Shafer, 2009, Developing a robust geologic conceptual model using pseudo 3-D P-wave seismic reflection data, *Environmental Geosciences*, 16 (1), 41–56.

28. B. M. Battista*, Camelia C. Knapp, T. McGee, and V. Goebel, 2007, Application of the Empirical Mode Decomposition and Hilbert-Huang Transform to Seismic Reflection Data, *Geophysics*, 72 (2), 29–37.

29. Knapp, J. H., Camelia C. Knapp, J. A. Connor, J. H. McBride, and M. D. Simmons, 2006, Deep seismic exploration of the South Caspian Basin: Lithosphere-scale imaging of the world's deepest basin, in P. O. Yilmaz and G. H. Isaksen, compilers, Oil and gas of the Greater Caspian area: Selected publications from the 2000 AAPG Istanbul Regional International Conference: AAPG Studies in Geology #55, p. 1– 3.

30. D. M. Mucuta*, Camelia C. Knapp, and J. H. Knapp, 2006, Constraints from Moho Geometry and Crustal Thickness on the Geodynamic Origin of the Vrancea Seismogenic Zone (Romania), *Tectonophysics*, 420, 23–36

31. D. M. Mucuta* and Camelia C. Knapp, 2005, Mechanical Coupling of Mantle Seismicity and Crustal-Scale Faults in the SE Carpathian Foreland, *Journal of the Balkan Geophysical Society*, Vol. 8, 2005, Suppl. 1,. p. 691-694.

32. J. H. Knapp, Camelia C. Knapp, V. Raileanu, L. Matenco, V. Mocanu, C. Dinu, 2005, Crustal Constraints on the Origin of Mantle Seismicity in the Vrancea Zone, Romania: The Case for Active Continental Lithospheric Delamination, Tectonophysics Special Issue on "The Carpathians-Pannonian Basin System - Natural Laboratory for Coupled Lithospheric-Surface Processes", *Tectonophysics*, 410, 311 –323.
33. I. Panea, R. Stephenson, Camelia C. Knapp, V. Mocanu, G. Drijkoningen, L. Matenco, J. Knapp, K. Prodehl, 2005, Near-vertical seismic reflection image using a novel acquisition technique across the Vrancea Zone and Foscani Basin, south-eastern Carpathians (Romania), Special Issue on "The Carpathians-Pannonian Basin System - Natural Laboratory for Coupled Lithospheric-Surface Processes", *Tectonophysics*, 410, 293– 309.
34. Camelia C. Knapp, J. H. Knapp, and John A. Connor, Crustal-Scale Structure of the South Caspian Basin Revealed by Deep Seismic Reflection Profiling, *Marine and Petroleum Geology*, 21, 1073–1081, 2004.
35. Camelia C. Knapp and J.H. Knapp, Absheron Allochton of the South Caspian Sea: evidence for slope instability in response to gas hydrate dissociation. South Caspian Basin: Geology, Geophysics, Oil and Gas Content, Baku. Nafta Press. 257-268, 2004.
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2. Md Saiful Alam, Camelia C. Knapp and James H. Knapp, Time-lapse Seismic Monitoring of a Transient, Fault-controlled Thermogenic Hydrate System at Woolsey Mound, Gulf of Mexico, American Geophysical Union, 13-17 Dec., 2021.
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Sincerely,

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