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**Professor**

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**Director**

Earth Sciences and Resources Institute  
University of South Carolina (USC)  
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**EDUCATION:**

PhD, Cornell University, Geophysics and Tectonics (2000)

B.S-M.S., University of Bucharest (Romania), Geophysical Engineering (1988)

**RESEARCH INTERESTS:**

- Application of active source seismology to the structure, composition, and physical properties of the Earth's crust and upper mantle
- Geodynamic evolution of orogenic belts, structure and origin of sedimentary basins; physical properties of marine gas hydrates; seismic wave propagation and imaging
- Petroleum exploration; environmental geophysics
- CO<sub>2</sub> sequestration; hydrogeophysics.

**EXPERIENCE:**

05/13 – present	Director, Earth Sciences and Resources Institute, USC
01/13 – present	Professor, Department of Earth and Ocean Sciences, 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	Visiting Scientist (Fulbright), 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:**

Distinguished Undergraduate Research Mentor, 2013

University of South Carolina, Breakthrough 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 (Caspian) fellowship (Cornell Geological Department) – 1998  
 Fulbright Fellow – 1995-1996.

### **PROFESSIONAL SERVICE**

SE-Geological Society of America 2016 – Seismic Reflection Processing, short course  
 US Geological Survey, Earthquake Hazards, Panelist  
 National Science Foundation, Directorate of Geosciences  
 Society of Exploration Geophysicists (SEG), Scholarship Committee  
 Society of Exploration Geophysicists (SEG) Committee on University and Student Programs  
 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  
 Science 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**

University Committee for Tenure and Promotion (panel chair)  
 Faculty Welfare Committee (co-chair)  
 Faculty Budget Committee (chair)  
 Faculty Advisory Committee (interim chair)  
 Udall Scholarship Committee  
 Carolina Core - Scientific Literacy (chair)  
 Department of Geological Sciences Undergraduate Director  
 Fulbright Evaluation Committee  
 Women Faculty Organization Steering Committee  
 College of Arts and Sciences Computing Committee  
 Women's Connections Mentoring Network.

### **GRADUATE STUDENTS:**

<b>Name</b>	<b>Degree</b>	<b>Year</b>	<b>Topic</b>	<b>Current Position</b>
Ali Aljanabi	PhD	Pres.	TBD	
Darrell Terry	PhD	Pres.	Buoyancy-Driven Flow and Methane-Hydrate Systems	
Khaled Almutairi	PhD	Pres.	Offshore Middle and South Atlantic Evaluation of the Cenozoic Formations for CO <sub>2</sub> Storage	
Abdullah Alhashel	MS	Pres.	Quantitative Reservoir Characterization using Seismic AVO and Impedance Inversion in the Lower Permian Unayzah Formation in Majhol Field, Saudi Arabia	

Ali Alsalem	MS		Seismic Depth Imaging in Anisotropic Media, Saudi Arabia	
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	Southwestern
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	TGS-Nopec
Olga Nedorub	MS	2012	New Constraints on the Age and Magnitude of Reactivation of the Camden Fault, South Carolina	Apache Corp.
Abby S. Alkire (co-advised)	MS	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 Corp.
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	eTrac Engineering
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 RESEARCH STUDENTS**

Rachelle Reisinger, Geophysics  
 Ethan Anderson, Geophysics  
 Patrick Nebel, Geophysics  
 Joseph Stone, Geology/ Geophysics  
 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 Frassetto, Geophysics, 2004

**POSTDOCTORAL FELLOWS:**

Dr. Robert Trenkamp – 2004-2006  
Bradley Battista – 2008  
Adrian Addison – 2009

**TEACHING:**

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

**SOCIETY MEMBERSHIP:**

Society of Exploration Geophysicists  
American Association of Petroleum Geologists  
Geological Society of America  
American Geophysical Union  
Carolina Geological Society

**LANGUAGES:**

Romanian, English, Italian

**FUNDED GRANTS:**

1. 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. 2017. \$4,000,000 total, \$1,000,000 for USC.
2. 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).

3. 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 – 10/31/2016, \$570,000.
4. Plume Structures in the Central Aleutian Basin, USC Magellan Scholarship, C. Knapp and Elizabeth Yankovsky, \$3,000.
5. Full Waveform Elastic Inversion Code Development for Gas Hydrate Research. C. Knapp, USC ASPIRE: 07/01/2012 – 06/30/2014, \$14,991.
6. 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.
7. Geologic Characterization of the South Georgia Rift Basin for Source Proximal CO<sub>2</sub> 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.
8. 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.
9. 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.
10. 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.
11. Gas Hydrates of the Northern Gulf of Mexico from Modern Processing of High Resolution Acoustic Line Array Data: Structural Control on Seafloor Deformation and Slope, Camelia Knapp (sole PI), U.S. Minerals Management Services, \$45,152, 07/01/07 - 06/30/08.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.

17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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. 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.
2. Leonardo Macelloni, Carol B Lutken, M.Sc; 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.

3. 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.
4. 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.
5. 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.
6. O. M. Akintunde\*, C. Knapp, and J. Knapp, 2013, Petrophysical characterization of the South Georgia Rift Basin for supercritical CO<sub>2</sub> storage: a preliminary assessment, *Environ Earth Sci.*, DOI 10.1007/s12665-013-2355-6.
7. O. M. Akintunde\*, C. Knapp, and J. Knapp, and D. Heffner, 2013, New constraints on buried Triassic basins and regional implications for subsurface CO<sub>2</sub> storage from the SeisData6 seismic profile across the Southeast Georgia coastal plain, *Environmental Geosciences*, 20 (1), 17–29.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.

18. 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.
19. 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.
20. 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.
21. 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
22. 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.
23. 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.
24. 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.
25. 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.
26. Camelia C. Knapp and J.H. Knapp, Absheron Allochthon 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.
27. S. Cloetingh, F. Horvath, C. Dinu, R. A. Stephenson, G. Bertotti, G. Bada., L. Matenco. D. Garcia-Castellanos, P. Andriessen, R. Wortel, W. Spakman, V. Mocanu, C. Langereis, W. Krijgsman, J. Fokkema, G. Drijkoningen, B. Ambrosius, F. Neubauer, L. Fodor, T. Dunai, E. Willingshofer, A. Nador, K. Leever, M. Tarapoanca, I. Panea, I. Vasiliev, G. Paicu, A. van der Hoeven, J. Knapp., Camelia C. Diaconescu, and St. Freimueller, 2003, Probing Tectonic Topography in the Aftermath of Continental Convergence in Central Europe, *EOS*, Transactions, American Geophysical Union, 84 (10), 89, 93, 2003.
28. Hauser, C. Prodehl, M. Landes, A. Bala, V. Raileanu, J. Bribach, J. Knapp, Camelia Diaconescu, C. Dinu, V. Mocanu, W. Fielitz, S. Harder, G. R. Keller, E. Hegedues, R.A. Stephenson, Seismic Experiments Target Earthquake-prone Region in Romania, *EOS*, Transactions, American Geophysical Union, 83 (41), 457, 462-463, 2002.
29. Camelia C. Diaconescu and J. H. Knapp, Role of a Phase-Change Moho in Stabilization and Preservation of the Southern Uralian Orogen, Russia, in Mountain Building in the Uralides: Pangea to Present, eds. D. Brown, C. Juhlin, and V. Puchkov, *AGU Monograph Series*, Vol. 132, 67-82, 2002.



30. Camelia C. Diaconescu and J. H. Knapp, Gas Hydrates of the South Caspian Sea, Azerbaijan: Drilling Hazards and Sea Floor Destabilizers, *OTC Special Publication*, 2002.
31. Camelia C. Diaconescu, R. M. Kieckhefer, and J.H. Knapp, Geophysical Evidence for and Thermobaric Modeling of Gas Hydrates in the Deep Water of the South Caspian Sea, Azerbaijan, *Marine and Petroleum Geology*, vol. 18, no. 2, p. 209-221, 2001.
32. Camelia C. Diaconescu and J. H. Knapp, Buried Gas Hydrates in the Deepwater of the South Caspian Sea, Azerbaijan: Implications for Geo-Hazards, *Energy Exploration and Exploitation*, vol. 18, no. 4, p. 385-400, 2000.
33. Camelia C. Diaconescu, J. H. Knapp, L. D. Brown, D. N. Steer, M. Stiller, Precambrian Moho offset and tectonic stability of the East European platform from the URSEIS deep seismic profile, *Geology*, vol. 26, no. 3, p. 211-214, 1998.
34. J. H. Knapp, Camelia C. Diaconescu, M. A. Bader, V. B. Sokolov, S. Kashubin, Seismic reflection fabrics of continental collision and post-orogenic extension in the Middle Urals, Central Russia, *Tectonophysics*, vol. 288, p. 115-126, 1998.
35. V. Raileanu, Camelia C. Diaconescu, Some seismic signatures in the Romanian lithosphere, *Tectonophysics*, vol. 288, p. 127-136, 1998.
36. V. Raileanu, Camelia C. Diaconescu, D. Mateciuc, M. Diaconescu, Velocity crustal models under the Romanian telemetered seismological network, *Rom. Rep. in Physics*, vol. 50 (1-2), p. 123-141, 1998.
37. Camelia C. Diaconescu, V. Raileanu, M. Diaconescu, F. Radulescu, A. Pompilian, M. Biter, Seismic data of the Carpathian foredeep basement (Romania), *Basement Tectonics*, vol. 11, p. 125-140, 1996.
38. F. Radulescu, V. Mocanu, V. Nacu, Camelia C. Diaconescu, Study of recent crustal movements in Romania: a Review, *Journal of Geodynamics*, vol. 22, p. 33-50, 1996.
39. V. I. Mocanu, C. Dinu, F. Radulescu, M. Diaconescu, Camelia C. Diaconescu, A. Pompilian, Seismogeological features of the crust in Romania, Wessely, G. and Liebl, W. (eds), Oil and gas in Alpidic thrustbelts and basins of central and eastern Europe, *EAGE Special Publication*, no. 5, p. 289-299, 1996.
40. M. Diaconescu, V. Raileanu, Camelia C. Diaconescu, C. Dinu, V. Mocanu, Deep seismic image of the southern Carpathian Foreland, *Revue Roumaine de Geophysique*, vol. 39, p. 72-73 and Bulletin of the Romanian Society of Geophysics, vol. 2, C20, 1995
41. Camelia C. Diaconescu, V. Raileanu, M. Diaconescu, M. Andreescu, C. Demetrescu, M. Ene, F. Radulescu, A. Pompilian, D. Enescu, Complex geophysical study in the western part of the Moesian Platform and Carpathian Foredeep, *Revue Roumaine de Geophysique*, vol. 38, p. 57-72, 1994.
42. V. Raileanu, Camelia C. Diaconescu, and F. Radulescu, Characteristics of Romanian lithosphere from deep seismic reflection profiling, *Tectonophysics*, vol. 239, p. 165-185, 1994.
43. F. Radulescu, V.Nacu, Camelia C. Diaconescu, Geodetic contributions to the geodynamic studies, in The Gruiu - Caldarusani Test Polygon Romania, Eds. M. Bonatz, D. Gitau and F. Radulescu, *Mitteilungen aus den Geodaetischen Instituten der Rheinischen Friederich-Wilhelms-Universitat*, vol. 82, p. 4-10, Bonn 1994.
44. F. Radulescu, M. Biter, Camelia C. Diaconescu, V. Nacu, Geological structure and seismicity of Romania, in The Gruiu - Caldarusani Test Polygon Romania, Eds. M. Bonatz, D. Gitau and F. Radulescu, *Mitteilungen aus den Geodaetischen Instituten der Rheinischen Friederich-Wilhelms-Universitat*, vol. 82, p. 10-20, Bonn, 1994.

45. F. Radulescu, M. Biter, M.N. Popescu, Camelia C. Diaconescu, V. Nacu, Geological, and geodynamic peculiarities of the Gruiu-Caldarusani polygon zone, in The Gruiu -Caldarusani Test Polygon Romania, Eds. M. Bonatz, D. Gitau and F. Radulescu, *Mitteilungen aus den Geodaetischen Instituten der Rheinischen Friederich-Wilhelms-Universitat*, vol. 82, p. 20-27, Bonn 1994.
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