

James N. Kellogg

PRESENT POSITION AND ADDRESS:

Professor of Applied Geophysics
School of Earth, Ocean, and Environment
University of South Carolina
Columbia, South Carolina 29208
(803) 777-4501; mobile: **(803) 422-1696**; FAX: (803) 777-6610
Internet: kellogg@sc.edu
<http://www.AndeanGeophysical.com>

EDUCATION:

1981 Ph.D. (Geology and Geophysics) Princeton University, Princeton, New Jersey
1978 M.A. (Geology) Princeton University, Princeton, New Jersey
1966 B.A. (History) Northwestern University, Evanston, Illinois

PROFESSIONAL EXPERIENCE:

1993-present	Professor, University of South Carolina, Columbia, South Carolina
1997-present	Editor-in-Chief, Journal of South American Earth Sciences, Elsevier Science Ltd.
1987-present	Director, Andean Geophysical Laboratory, http://AndeanGeophysical.com
2002-2010	Co-Director, GEGEO Program,
2001-2004	Chairman, Department of Geological Sciences, University of South Carolina
1994-01; 04-06	Director of Graduate Studies in Geology, University of South Carolina, Columbia, SC
1987-1993	Associate Professor, University of South Carolina, Columbia, South Carolina
1984-1986	Chairman, Marine Geophysics Division, Hawaii Institute of Geophysics
1981-1986	Assistant Geophysicist, Hawaii Institute of Geophysics, University of Hawaii
1977-1981	Research Assistant, Princeton University, Princeton, New Jersey
1976	Physical Science Technician, U.S. Geological Survey, Flagstaff, Arizona

RESEARCH INTERESTS:

Applied geophysics, 2-D and 3-D seismic imaging, gravity-magnetic tectonic studies, GPS geodesy, tectonics of active margins, Andean orogenic belt, volume-balanced structural models, seamounts.

SOCIETIES AND FELLOWSHIPS:

Carolina Geological Society, 2015-present; American Geophysical Union, 1977-present; Society of Exploration Geophysicists, 1981-present; American Association of Petroleum Geologists, 1996-present; Geological Society of America, 1983-present; Hawaiian Academy of Science, 1986; South Carolina Academy of Science, 1989-present; Distinguished Fulbright Lecturer, 1999; Phelps - Dodge Fellow, 1980; Sigma Xi, 1978-79; Herbert E. Rathey Scholar, 1962-1966.

RESEARCH RELATED ACTIVITIES:

Research Project Coordinator: Llanos Foothills Project, 2015-2017; Haile Gold Deposit Geophysical Project, 2012-2017; Topoyaco Petroleum Project, 2014-2015; Upper Magdalena Valley Geophysical Study, 2013-2014; South Carolina Basement Mapping Project, 2012-2014; Eastern Cordillera Foothills Project, 2009-2011; Guinea Equatorial Geoscience (GEGEO) Project, 2002-2010; Bolivia Geophysical Project, 1996-1998; Peru Geophysical Project, 1996-1998; Colombian Geophysical Project, 1993-1995; Equatorial GPS Project, 1990; North Andean Basin Studies, 1989-1991; North Andes GPS Project, CASA, 1988, 1991, 1994, 1996; 1998, 1999, 2001; Southwest Pacific Gravity Project, 1983-1988; Latin America Gravity Project, 1982-1987; Marine Gravity and Magnetic Interpretation, Bizerte Block, Tunisia, 1982; **Consultant and Short Courses:** 2016, Colombian Geological Service,

Pacific Energy, Bogota; OceanaGold, Haile Mine; 2015, University of Sao Paolo; Pacific Energy, Bogota; 2013-2014, PetroGroup, Bogota, Medellin, Cartagena; Pacific Rubiales, Bogota; Emerald Energy, Bogota; 2012, PetroGroup, Bogota; Parex Resources, Calgary; 2010, Remora Energy, Calgary; 2009, Kuwait Oil Company, ResModTec Consultants, Abu Dhabi; EAFIT, Medellin; 2008, Universidad Industrial Santander-Ecopetrol, Bucaramanga; 2007, ConocoPhillips, Houston; Nexen, Bogota; BP, Bogota; 2003, AngloGold, Lima; 2002, Petrobras, Bogota; 1999, Texaco; 1998, Texaco Visiting Professor; 1992, 1994, HOCOL Shell; 1991, 1993, Empresa Col. de Petroleos; 1988-1991, South America Gravity Project, University of Leeds Industrial Services; **Invited Lecturer:** 2017, University of Georgia, Athens; 2016, VII Workshop on Scientific Applications of GNSS in Colombia, Bogota, Colombia, **Keynote speaker:** 2012, University of the Andes, Bogota; U.S. Naval Academy Alumni Assoc., Columbia; 2011, GSA Penrose Meeting, Manizales, Colombia, **Keynote speaker:** Philippine Volcanic and Geologic Survey, Manila; 2007, XI Congreso Colombiano de Geología, Bucaramanga, **Keynote address:** National Univ. Equatorial Guinea; 2006, Petroleum Institute of Colombia, Bucaramanga; Geological Society of Colombia, Bogota; 2002, Petrobras, Bogota; 2001, UNC Chapel Hill; 1999, Augusta State University; Distinguished Fulbright Lecturer, Ibn Tofail, Settat, and Beni Mellal universities, National Scientific Research Center (C.N.R.), and ONAREP (Moroccan National Oil Company); 1998, Cornell University; 1994 Field Trip Leader: Pennzoil, Occidental, HOCOL Shell, Empresa Col. de Petroleos, ICP; INTEVEP Caracas, Pennzoil, Greater Piedmont Chapter of the Explorers Club; 1993, Rice University, Mobil New Exploration Ventures, Houston, University of South Carolina at Aiken, BP Exploration Co. Colombia; Instituto Geografico Agustin Codazzi, Bogota; 1992, University of Texas at Dallas; Maxus Energy Corp., Dallas; HOCOL Shell, Cartagena, ARCO EPT, Plano; 1991, Empresa Col. de Petroleos, Bogota, HOCOL Shell, Cartagena; Indiana University; Texaco Overseas Hold. Inc., Bellaire, Texas; Mobil New Exploration Ventures; 1990, Empresa Col. de Petroleos, B.P. Exploration Co. Colombia, Chevron Petroleum Co., Elf Aquitaine Colombie, REPSOL Exploracion, Lasmo Oil Ltd., HOCOL Shell; Colombia, short course; 1989, Asociacion Colombiana de Geologos y Geofisicos del Petroleo, Bogota; 1988, Exxon, Houston; Occidental, Bogota, short course; Shell Distinguished Lecturer, Duke University; 1985, University of Texas at Dallas; U.S. Geological Survey, Menlo Park; **Editorial: Guest Editor:** CASA UNO Special Issue of *Geophysical Research Letters*, 1989-1990; *Scientific Committee, Earth Sciences Research Journal*, Colombia, 2006; *Editor in Chief, Journal of South American Earth Sciences*, 1997-present; **Participating Scientist:** R/V KANA KEOKI Leg 05, Mid Pacific Mountains, 1981; R/V MOANA WAVE, CCOP Southpac, Kiribati, Tuvalu, 1986; R/V MOANA WAVE, Loihi, Honolulu, 1986; **Member:** NASA GPS Investigator Working Group for the Caribbean, 1985; USC Representative to the University NAVSTAR Consortium (UNAVCO), 1987-present; NASA Dynamics of Solid Earth Investigator, 1991- present; North American Gravity Database Committee, 2002-present; **Invited Participant:** Fourth Biennial SEG/USN Joint Technical Symposium on Three-Dimensional Marine Data Collection, Processing, Interpretation, and Presentation, National Space Technology Laboratories, Mississippi, 1983; GPS and Crustal Dynamics Workshops, Jet Propulsion Laboratory, Pasadena, California, 1986, 1987, 1989; Caribbean GPS Workshop, Maracaibo, Venezuela, 1987; Caribbean Ocean Drilling Program Workshop, Runaway Bay, Jamaica, 1987; National Science Foundation GPS Workshop, San Francisco, 1989; NASA Dynamics of Solid Earth Workshop, Pasadena, 1992; NASA South American GPS Meeting, Washington, DC, 1993; UNAVCO Community Meeting, Boulder, 1995; USGS Earthquake Hazards Reduction Program (Southern California Panel), San Francisco, 1998; UNAVCO Working Group on "GPS Velocity Synthesis" (GPSVEL), 1999; Journal of South American Earth Sciences, Chair, editorial board meeting, Rio de Janeiro, 2000; SE Caribbean Continental Dynamics Workshop, Rice University, 1999, 2001; NASCAR Workshop, UNC Chapel Hill, 2002; Colloque International Technologies Nouvelles et Amélioration de la Gestion des Risques Majeurs, Kénitra, Morocco, 2004; UNAVCO Planning Meeting, Miami, 2006; **Symposium Co-Convener:** Caribbean Tectonics, Plate Motion and Plate Boundaries San Jose, 2016; Pacific Hotspots: New Geophysical, Geological, and Tectonic Studies, GSA Cordilleran Section, Hilo, Hawaii, 1987; Global Positioning System Orbits: Central and South America (CASA) Measurements, Spring AGU, Montreal, 1992; Tectonics Session Chairman: V Simposio Bolivariano, Exploracion Petrolera en las Cuencas Subandinas, Puerto de la Cruz, Venezuela, 1994; Tectonic Relations Between the Caribbean and Adjacent Plates, Spring AGU, Baltimore, 1997; Geodesy: Crustal Deformation, Fall AGU, San Francisco 2002; Subduction and Lithospheric Deformation in South America, Fall AGU, San Francisco, 2003; Colloque International Technologies Nouvelles et Amélioration de la Gestion des Risques Majeurs, Kénitra, Morocco, 2004;

PUBLICATIONS:

1. Duff, P., J. Kellogg, 2017, Reinterpretation of ADCOH and COCORP seismic reflection data with constraints from detailed forward modeling of potential field data – implications for Laurentia-Peri-Gondwana suture, Tectonophysics, <http://dx.doi.org/10.1016/j.tecto.2017.06.002>.

2. Saeid, E., K.B. Bakioglu, J. Kellogg, J.A. Martinez, 2017, Garzón Massif basement tectonics: structural control on petroleum migration in adjacent Upper Magdalena and Andean foreland basins, Colombia: a geophysical study, submitted to *Marine and Petroleum Geology*.
3. H. Mora-Paez, J. Kellogg, P. LaFemina, D. Mencin, R. Fernandes da Silva, L. Cardona, J.R. Pelaez-Gaviria, S. Lizarazo, 2017, in prep., Crustal deformation in the northern Andes – Space geodesy velocity field.
4. Dixelis, G., M. Assumpção, J. Kellogg, P. Pedraza, F. Dias, 2016, Estimating the 2008 Quetame (Colombia) earthquake source parameters from seismic data and InSAR measurements, *Journal of South American Earth Sciences*, 72, 250-265, doi.org/10.1016/j.jsames.2016.09.011
5. Egbue, O., J. Kellogg, H. Aguirre, C. Torres, 2014. Evolution of the stress and strain fields in the Eastern Cordillera, Colombia, *Journal of Structural Geology* 58, 8-21, doi.org/10.1016/j.jsg.2013.10.004
6. Kellogg, J.N., A. Leier, E. Saeid, 2014, Topoyaco Block Technical Report: A project to generate a stratigraphic and structural framework for Topoyaco Block, Colombia, determine possible reasons for oil biodegradation and its relation to oil generation and migration vs. trap synchronization, Pacific Rubiales Energy, Bogota, 53 pages.
7. Kellogg, J.N., K.B. Bakioglu, 2013. Gravity modeling of line GAIT 99-21 in Block 32, Upper Magdalena Valley, Colombia, Emerald Energy, Colombia, 32 p
8. Egbue, O., J. Kellogg, 2012, Three-dimensional structural evolution and kinematics of the Piedemonte Llanero, Central Llanos foothills, Eastern Cordillera, Colombia, *Journal of South American Earth Sciences*, doi:10.1016/j.jsames.2012.04.012.
9. Kellogg, J.N., O. Egbue, G. Ojeda, H. Duque, 2012, Eastern Cordillera and Adjacent Basins, A Geophysical Evaluation: Parex - Andean Geophysical Laboratory, Columbia, South Carolina, 136 p.
10. Kellogg, J., 2012, Letter to Editorial Board, *Journal of South American Earth Sciences*, 37, iii, doi: 10.1016/S0895-0811(12)00061-2.
11. Egbue, O., J. Kellogg, 2010, Pleistocene to Present North Andean “escape”, *Tectonophysics*, doi: 10.1016/j.tecto.2010.04.021
12. Kellogg, J.N., O. Egbue, G. Ojeda, H. Duque, 2007, Eastern Cordillera and Adjacent Basins, A Geophysical Evaluation: Nexen - Andean Geophysical Laboratory, Columbia, South Carolina, 136 p.
13. Kellogg, J.N., 2007, Llanos Core Area Technical Report, A Geophysical Evaluation: Nexen - Andean Geophysical Laboratory, Columbia, South Carolina, 62 p.
14. Ceron, J., J. Kellogg, G. Ojeda, 2007, Basin configuration of the northwestern South America-Caribbean margin from recent geophysical data, *CT&F, Ciencia, Tecnología y Futuro*, vol. 3, no. 3, Bucaramanga, Colombia, 25-49.
15. Kellogg, J., J. Knapp, A. Chacon, 2006, *GEGEO Program, 2005-2006 Annual Report*, 13 pp.
16. W. Hinze et al., 2006, Reply to the Discussion Vasanthi, A., Sharma, K.K., and Mallick, K., ‘New standards for reducing gravity data: The North American gravity database’ by the Standards/Format Working Group, North American Gravity Database Committee, *Geophysics*, v. 71, No. 6. X31–X33, 10.1190/1.2361084
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18. Kellogg, J., Toto, E., Ceron, J., 2005. Structure and tectonics of the Sinu-San Jacinto accretionary prism in northern Colombia, *X Congreso Colombiano de Geología*, Bogota, 2005, 10 pp.
19. Kellogg, J., G. Ojeda, H. Duque, J. Ceron, 2005. Crustal structure of the Eastern Cordillera, Colombia, *6th International Symposium on Andean Geodynamics*, Barcelona, 2005, 424-427.
20. Kellogg, J., J. Knapp, A. Chacon, 2005, *GEGEO Program, 2004-2005 Annual Report*, 10 pp.
21. Kellogg, J., R. Trenkamp, S. White, 2004, Seismic Risk Assessment: Space Geodetic Techniques Expand Ability to Measure Elastic Strain Accumulation, *Colloque International Technologies Nouvelles et Amélioration de la Gestion des Risques Majeurs*, Kénitra, Morocco, Vol. 2, 15-17 March 2004, 7 pp.
22. Trenkamp, R., H. Mora P., Elkin Salcedo H., J.N. Kellogg, 2004, Possible rapid strain accumulation rates near Cali, Colombia determined from GPS measurements (1996-2003), *Earth Sciences Research Journal*, Universidad Nacional de Colombia, December 2004, 25-33.
23. White, S.M., Trenkamp, R., J. N. Kellogg, 2003. Recent crustal deformation and the earthquake cycle along Ecuador-Colombia subduction zone, *Earth and Planetary Science Letters* 216, 231-242.
24. Mora, H., R. Trenkamp, J. Kellogg, M. Ordóñez, (2003), “Geodesia satelital para medir deformación tectónica en el Noroeste de Suramérica”, *Memorias Congreso Internacional de Geodesia y Cartografía*, Asociación Venezolana de Ingenieros Geodestas – International Association of Geodesy, Caracas, Marzo 2002.
25. Trenkamp, R., J.N. Kellogg, J.T. Freymueller, H. Mora, 2002, Wide plate margin deformation, southern Central America and northwestern South America, CASA GPS observations, *Journal of South American Earth*

- Sciences, v. 15, 157-171.
26. Trenkamp, R. and J. Kellogg, CASA GPS Results 2002. <http://web2.geol.sc.edu/agl/index.asp?page=7>
 27. Kellogg, J.N., S. Oropeza, J. Hickman, 2002, Structural Modeling Boqueron and El Descanso Blocks, Upper Magdalena Valley, Colombia, AGL-Petrobras Technical Report, 21 figs., 11 profiles, CD-ROM, 53 pp. plus appendices.
 28. Mora, H., R. Trenkamp, J. Kellogg, J. Freymueller, M. Ordóñez, (2002), “Resultados del uso de geodesia satelital para estudios geodinámicos en Colombia”, *Geofísica Colombiana* 6, Diciembre 2002, Universidad Nacional de Colombia, Unibiblos, pp. 43-52, ISSN 0121-2974
 29. Kellogg, J. and W. Mohriak, 2001, Tectonic and geological environment of coastal South America, in U. Seeliger and B. Kjerfve, editors, Ecological Studies, Vol. 144, Coastal Marine Ecosystems of Latin America, Springer-Verlag, 1-16.
 30. Kellogg, J.N., 2000, Editorial, *Journal of South American Earth Sciences*, v. 13, n. 1, 1-2.
 31. Kellogg, J.N., C. Vargas, M. Salvador, D. Diaz, 1999, Bolivia Geophysical Project, Technical Report: Andean Geophysical Laboratory, Columbia, South Carolina, 8 maps, 13 profiles, CD-ROM.
 32. Kellogg, J.N., J. Chung, S. Oropeza, M. Salvador, D. Diaz, 1999, Peru Geophysical Project, Technical Report: Andean Geophysical Laboratory, Columbia, South Carolina, 9 maps, 10 profiles, 2 CD-ROM, 250 p.
 33. Kellogg, J.N., J. Chung, D. Diaz, 1999, Potential Field and Tectonics of Offshore East Trinidad, Cretaceous Source Rock Mapping Project, Technical Report: Texaco Exploration-Andean Geophysical Laboratory, Columbia, South Carolina, 12 maps, 6 profiles, 1 CD-ROM, 71 p.
 34. Kellogg, J.N., 1999, Fulbright lectures lay groundwork for Moroccan-American collaboration in scientific research and hydrocarbon exploration, Moroccan-American Commission for Educational & Cultural Exchange Newsletter, Winter 1999.
 35. Kellogg, J.N., 1998, Gravity field and tectonics of offshore East Trinidad, Implications for Cretaceous source rocks, Technical Report: Texaco Exploration, Bellaire, Texas, 10 pp., maps and interpreted profiles.
 36. Kellogg, J.N., 1998, Editorial, *Journal of South American Earth Sciences*, v. 11, n. 6.
 37. Talwani, P., J.N. Kellogg, and R. Trenkamp, 1997, Validation of Tectonic Models for an Intraplate Seismic Zone, Charleston, South Carolina, With GPS Geodetic Data, NRC Report NUREG/CR-6529, 41 p.
 38. Kellogg, J.N., 1997, Editorial, *Journal of South American Earth Sciences*, v. 10, n. 1, pp. i-iii.
 39. Kellogg, J.N., 1997, Editorial, *Journal of South American Earth Sciences*, v. 10, n. 6, pp. i-ii.
 40. Kellogg, J.N., and V. Vega, 1995, Tectonic development of Panama, Costa Rica, and the Colombian Andes: Constraints from Global Positioning System geodetic studies and gravity, *Geologic and Tectonic Development of the Caribbean plate boundary in southern Central America*, GSA Special Paper 295, P. Mann, editor, 75-90.
 41. Stallings, T.C., C.L.V. Aiken, and J.N. Kellogg, 1995, Southern Central America Gravity Anomaly Map, Bouguer (Land) Free-air (Marine), scale 1:1,500,000, *Geologic and Tectonic Development of the Caribbean plate boundary in southern Central America*, GSA Special Paper 295, P. Mann, editor, 87, plate 1.
 42. Kellogg, J.N., G. Ojeda, H. Duque, S. Roth, M. Scott, M. Zhi, K. Zhou, D. Diaz, D. Gladdish, G. Connard, 1995, Colombia Geophysical Project - Eastern Cordillera, Technical Report: Andean Geophysical Laboratory, Columbia, South Carolina, 170 p.
 43. Kellogg, J.N., and D.R. Kansakar, 1994, Gravity field of the North Fiji Basin, in Kroenke, L.W., and J.V. Eade, editors, Basin Formation, Ridge Crest Processes, and Metallogensis in the North Fiji Basin, Circum-Pacific Council for Energy and Mineral Resources, Earth Science Series, Vol. 15, Springer-Verlag, New York, 41-48.
 44. Kellogg, J.N. and H. Duque S., 1994, Crustal scale deformation in the Eastern Cordillera, Colombia, Memoria V Simposio Bolivariano, Exploracion Petrolera en Las Cuencas Subandinas, Puerto de La Cruz, Venezuela, 365-372.
 45. Talwani, P. and J.N. Kellogg, 1994, Validation of tectonic models for an intraplate seismic zone, Charleston, South Carolina, with GPS geodetic data, Report for NRC, 9 p.
 46. Freymueller, J.T., and J.N. Kellogg, 1993, Plate Motions and Active Crustal Deformation in the North Andean Region Measured with the Global Positioning System, in W. Torge, Gonzalez Fletcher, J.G. Tanner eds., *Recent Geodetic and Gravimetric Research in Latin America*, Springer-Verlag, Berlin-Heidelberg-New York.
 47. Freymueller, J.T., J.N. Kellogg, and V. Vega, 1993, Plate Motions in the North Andean Region, *Journal of Geophysical Research*, v. 98, 21,853-21,863.
 48. De Toni, B. and J.N. Kellogg, 1993, Seismic evidence for blind thrusting of the northwestern flank of the Venezuelan Andes, *Tectonics*, v. 12, 1,393-1,409.
 49. Kellogg, J.N., 1993, Balanced geological cross-sections and prospectivity of the Alpujarra area, Sumapaz Project, Upper Magdalena Valley, Colombia, internal report, Empresa Colombia de Petroleos, Bogota, 49p., 9 plates.

50. Freymueller, J.T., and J.N. Kellogg, 1992, Isostasy and tectonic origins of Pacific seamounts, in B. Keating and B. Bolton eds., *Geology and Offshore Mineral Resources of the Central Pacific Basin*, Circum-Pacific Council for Energy and Mineral Resources Earth Science Series, Vol. 14. New York, Springer-Verlag, 39-53.
51. Toto, E.A. and J.N. Kellogg, 1992, Structure of the Sinu-San Jacinto fold belt-An active accretionary prism in northern Colombia, *Journal of South American Earth Sciences*, vol. 5, no. 1, 211-222.
52. Kellogg, J.N., 1992, Balanced geological cross sections in the Upper, Middle, and Lower Magdalena Valley, Colombia, unpublished report, HOCOL Shell, Cartagena, 28 p., 7 plates.
53. Freymueller J.T., and J.N. Kellogg, 1991, Comparison of TI-4100 and Trimble 4000ST GPS Receivers Over Short and Long Baselines, *GPS '90 Proceedings - Second International Symposium on Precise Positioning with the Global Positioning System*, Ottawa, September 1990, 477-491.
54. J. Kellogg, V. Godley, G. Woollard, C.V. Aiken, C. Ropain, and A. Bermudez, 1991, Simple bouguer and free-air gravity anomaly maps of Colombia, Eastern Panama, and adjacent marine areas, scale 1:1,500,000, G.S.A. Map and Chart Series MCH070.
55. Kellogg, J.N., 1991, Structural styles and prospective areas in the Gualanday Area of the Upper Magdalena Basin, Colombia, unpublished report and seismic atlas, Empresa Colombia de Petroleos, Bogota, 31p., 19 plates.
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57. Kellogg, J.N., J.T. Freymueller, T.H. Dixon, R.E. Neilan, C. Ropain U., S. Camargo M., B. Fernandez C., J.L. Stowell, A. Salazar, J. Mora. V., L. Espin, V. Perdue, L. Leos, 1990, First GPS baseline results from the North Andes, CASA UNO Special Issue, *Geophysical Research Letters*, 17, 211-214.
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62. Kellogg, J.N., 1988, Plate motion measurements with satellite geodesy in the Northern Andes, *Journal of South American Earth Sciences*, 1, 4, 419-421.
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ABSTRACTS:

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2. Dixelis, G., Assumpção, M., Kellogg, J., Mendonça, C., 2016, InSAR analysis of Ecuador Earthquake using Sentinel 1A imagery, *IASPEI - Regional Assembly (Latin-American and Caribbean Seismological Commission - LACSC)*, San Jose, Costa Rica
3. Kellogg, J., H. Mora, 2016, Panama Arc-North Andes collision: “Broken indenter” model from new GPS velocity field, *IASPEI - Regional Assembly (Latin-American and Caribbean Seismological Commission - LACSC)*, San Jose, Costa Rica.
4. Kellogg, J., P. Duff, 2016, Crustal structure, igneous intrusions, and faults in the South Georgia Rift Basin and vicinity, South Carolina – Constraints from potential-field, seismic, and well data, *Southeastern GSA Meeting*, Columbia, SC.
5. Duff, P., J. Kellogg, 2016, Laurentian-Peri Gondwanan suture zone – reinterpretation of ADCOH and COCORP seismic reflection data with constraints from new potential field data, *Southeastern GSA Meeting*, Columbia, SC.
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7. Duff, P., J. Kellogg, 2015, Collisional tectonics of the southern Appalachian orogenic belt – reinterpretation of ADCOH and COCORP seismic reflection data with constraints from new potential field data, *Geological Society of America Abstracts with Programs*, Vol. 47, No. 7.
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GRADUATE STUDENTS:

Chair of Ph. D. Committee: Saad Alarifi, 2017 (Ph.D. candidate); Patrick Duff, 2015 (Ph.D. candidate); Ibraheem Hafiz, 2015 (Ph.D. candidate); Ziyad Albeshar, 2015 (Ph.D. candidate); Essam Saeid, 2013 (Ph.D. candidate); Obi Egbue, 2011 (Ph.D.); John Ceron, 2008 (Ph.D.); Robert Trenkamp, 2003 (Ph.D.); El Arbi Toto, 1992 (Ph.D.); Jeffrey Freymueller, 1991 (Ph.D.); **Member of Ph.D. Dissertation Committees:** Javier Idarraga, 2017 (Ph.D., Un. Nac. Colombia); Khaled Almutairi, 2016 (Ph.D. candidate); Gabriel Dicelis, 2016 (Ph.D., U. Sao Paulo); Duke Brantley, 2015 (Ph.D.); Erin Derrick, 2012 (Ph.D. candidate); Josgre Salazar, 2014 (Ph.D.); J. Bryant, 2008 (Ph.D.); Lizbeth Guijarro, 2005 (Ph.D.); A. Gangopadhyay, 2005 (Ph.D.); John Reistroffer, 2001 (Ph.D.); Muatasam Al-Raisi, 2000 (Ph.D.); Animikh Sen, 2000 (Ph.D.); Kurt Johnston, 1999 (Ph.D.); Phillip Levine, 1999 (Ph.D.); J. McCloskey (Ph.D. candidate); Dan McNamara, 1995 (Ph.D.); Istvan Csato, 1995 (Ph.D.); Matt Carr, 1995, (Ph.D.); Mwakahesya, Lutengano, 1995 (Ph.D.); Edward W. Mason, 1994, (Ph.D.); C.A. Alfonso P., 1993 (Ph. D.); Ron Marple, 1994 (Ph.D.); A. Salazar J., 1992 (Ph.D.); Olufemi Babalola, 1990 (Ph.D.); Dae-Kyo Cheong, 1990 (Ph.D.); Sriram Madabhushi, 1988-present (Ph.D. candidate); C. C. Ferrall, 1986 (Ph.D.); D. Johnson, 1986 (Ph.D.); D. Lindwall, 1986 (Ph.D.); S. Newsom, 1986 (Ph.D.); P. Jarvis, 1986 (Ph.D.); M.S. Pringle, 1986 (Ph.D.); **Chair of M.S. Thesis Committees:** Kubra Liman, 2017 (M.S. candidate); Saad Alarifi, 2017 (M.S.); Kadir Bakioglu, 2014 (M.S.); Josh Hickman, 2003 (MS); Juan Chung-Ching, 1999 (M.S.); Ciro Vargas, 1999 (M.S.); Simon Oropeza, 1998 (M.S.); German Ojeda, 1996 (M.S.); Hector Mora, 1995 (M.S.); Jose Antonio Martinez, 1995 (M.S.); Helman Duque, 1994 (M.S.); Victor Vega, 1993 (M.S.); Carolina Fleischmann, 1992 (M.S.); Angela Daniels, 1991 (M.S.); Mario Salvador, 1991 (M.S.); J.M. Moreno M., 1989 (M.S.); Jeffrey Freymueller, 1988 (M.S.); B.S. Wedgeworth, 1985 (M.S.); I.J. Ogujiofor, 1985 (M.S.). **Member of M.S. Thesis Committees:** John Ollman (M.S. candidate, 2017); Erica Rubino (M.S. candidate, 2016); A. Alsalem 2016 (M.S.); A. Alhashel 2016 (M.S.); Ricardo Kabila, 2015 (M.S.); Amanda Williams 2016 (M.S.); A. Pollack, 2014 (M.S.), W. Anderson, 2013 (M.S.), J.M. Bacale, 2010 (M.S.); J. O'Brien, 2008 (M.S.); M. Russell, 2006 (M.S.); J. Bryant, 2004 (M.S.); I. Dura-Gomez, 2004 (M.S.); E. Wildermuth, 2002 (M.S.); A. Al-Naji, 2002 (M.S.); E. Anderson, 2002 (M.S.); A. Gangopadhyay, 2000, (M.S.); A. Alissa, 2000 (M.S.); C. Plank, 1999 (M.S.); J. Garner, 1997 (M.S.); Luiz Gomide, 1998 (M.S.); R. Trenkamp, 1996 (M.S.); J. Cobb, 1996 (M.S.); L. Ismail, 1995 (M.S.); D. Guo, 1995 (M.S.); W. T. Schaeffer, 1995 (M.S.); M. Powers, 1996 (M.S.); Yumei Lu, 1993 (M.S.); Yuan Li, 1992 (M.S.); P. Teatin, 1991 (M.S.); O. Portilla, 1991 (M.S.); B. DeToni, 1990 (M.S.); I. M. Lawless, 1990 (M.S.); F. Laverde M., 1989 (M.S.); C. Ivan B.T., 1989 (M.S.); C.A. Alfonso P., 1989 (M.S.); J. Cogan, 1989 (M.S.); J.L. Rubiano O., 1989 (M.S.); L.F. Sarmiento R., 1989 (M.S.); E. Cardozo P., 1989 (M.S.); C. Ramirez, 1988 (M.S.); P. Daugherty, 1986 (M.S.);

UNDERGRADUATE STUDENTS:

Thesis Advisor: Gabriela Franco, 2017 (Univ. Nac. Venezuela); Phillip Boan, 2017; Jacob McVay, 2013.

U.S. SCIENTIFIC ASSOCIATES:

Ph.D. Advisor: William E. Bonini (Princeton University); U.S. Collaborators: Scott Howard (South Carolina Geological Survey); Timothy Dixon (University of South Florida); Carlos L.V. Aiken (University of Texas at Dallas); Loren W. Kroenke (University of Hawaii).