

GEORGIOS P. TSOFLIAS

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Biographic Information

I was born in Athens, Greece and I have resided in the U.S. since 1984. I received B.S. (1989) and M.S. (1991) degrees in Geophysics from Virginia Polytechnic Institute and State University, and a Ph.D. (1999) in Geological Sciences from The University of Texas at Austin. My professional experience includes exploration geophysics with Mobil Oil (1991 to 1995, offshore Gulf of Mexico), Jones Energy Ltd. (1996 to 1998, Texas Panhandle and Oklahoma) and the U.S. Department of the Interior (1999 to 2003, offshore Gulf of Mexico). In 2003 I joined The University of Kansas, Department of Geology, where I am currently a Professor. My research interests are in applied geophysics, including near-surface geophysics, exploration geophysics and induced seismicity. My research has focused on ground-penetrating radar (GPR) imaging of fractures and monitoring flow and transport in fractured rocks, monitoring microbial processes in contaminated aquifers, geophysical imaging of polar ice sheets, application of geophysical methods to archaeology, GPR imaging of carbonate aquifers and reservoir analogues, and most recently seismic characterization of Mississippian and Arbuckle reservoirs in Kansas, seismic monitoring of CO₂ storage, and monitoring of induced seismicity in the US midcontinent.

Education

- 1999 Ph.D., Geological Sciences, The University of Texas at Austin, Austin, TX. "Hydrogeologic Characterization of Fractured Carbonate Aquifers Employing Ground-Penetrating Radar." Advisors: Dr. J. M. Sharp, Jr., Dr. P. Stoffa
- 1991 M.S., Geophysics, Virginia Polytechnic Institute and State University, Blacksburg, VA. "Common Cyclicities in Seismicity and Water Level Fluctuations at the Charlevoix Seismic Zone of the St. Lawrence River." Advisor: Dr. G.A. Bollinger
- 1989 B.S., Geophysics, Virginia Polytechnic Institute and State University, Blacksburg, VA.

Languages: English (fluent), French (good), Greek (fluent)

Professional Experience & Appointments

1) Academic Research

- 2017 – present Professor, The University of Kansas, Lawrence KS, USA
- 2009 – 2017 Associate Professor, The University of Kansas, Lawrence KS, USA
- 2009 – 2010 Visiting Professor of Hydrogeophysics, Land Environment and Geo-Engineering Department (DITAG), Politecnico di Torino, Italy (December 2009 - June 2010)
- 2009 Visiting Professor, Herbette Fellow, Institute of Geophysics, University of Lausanne, Switzerland (August 2009 - November 2009)
- 2003 – 2009 Assistant Professor, The University of Kansas, Lawrence KS, USA

Research Areas: Applied geophysics; exploration geophysics; induced seismicity; hydrogeophysics; biogeophysics; geoarchaeology; glaciology; GPR and seismic methods.

Current and recent projects (funding source indicated in parenthesis):

- Seismic characterization and microseismic monitoring of CO₂ injection in midcontinent Mississippian and Arbuckle reservoirs (DOE)
- Monitoring induced seismicity in the US midcontinent (DOE & KICC)
- GPR imaging of fractures and monitoring of fluid-flow, mass transport and heat exchange in fractured aquifers, reservoirs and geothermal systems (DOE & NSF)
- High-resolution GPR and seismic imaging of carbonate reservoir analogues for assessment of heterogeneous fluid-flow properties (Kansas Interdisciplinary Carbonates Consortium - KICC)
- High-resolution seismic and GPR imaging of faults and fractures at a contaminated fractured sandstone aquifer (MWH Americas INC.)
- Development of automated 3-D shallow seismic methods for high-resolution imaging of soils, fracture zones and voids (DOE)
- Biogeophysical (GPR) monitoring of microbial activity at hydrocarbon contaminated sites (NSF)
- GPR and seismic imaging of active tectonic settings (NSF)
- Development of seismic and GPR methods for transportation infrastructure projects (KTRAN)
- Seismic and radar imaging of polar ice sheets for understanding the behavior of rapidly changing ice streams (NSF & NASA)
- Geophysical imaging of archaeological sites in Kansas and Ohio, USA

1998 – 1999: Graduate Research Assistant, Support Office for Aerogeophysical Research (SOAR), Institute for Geophysics, The University of Texas at Austin (UTIG). Project: Workstation Based Processing and Interpretation of Airborne Ice-Penetrating Radar Data Over the West Antarctic Ice Sheet. Supervisor: Dr. Don Blankenship.

1996 – 1997: Graduate Research Assistant, Bureau of Economic Geology, The University of Texas at Austin (BEG). Project: Architecture of Fluvial-Deltaic Reservoirs: Extension of Outcrop Studies into 3-D Using Ground Penetrating Radar. Supervisors: Dr. Mark Barton and Dr. Brian Willis.

1995 – 1996: Graduate Research Assistant, UTIG. Project: Supersensitive Airborne Magnetometry for Geophysical Exploration and Environmental Hazard Detection. Supervisor: Dr. Clark Wilson.

1990 – 1991: Graduate Research Assistant, Virginia Polytechnic Institute and State University, Department of Geological Sciences. Project: Spectral Studies of the Elastic Wave Radiation from Appalachian Earthquakes and Chemical Mining Explosions. Supervisor: Dr. G.A. Bollinger.

1988 – 1989: Undergraduate Assistant, Seismological Observatory WWSSN BLA, Virginia Polytechnic Institute and State University, Dept. of Geol. Sci. Supervisor: Dr. G.A. Bollinger.

II) Teaching

2003 – present: The University of Kansas

GEOL 171: Earthquakes and Natural Disasters (Fall 04 [795 students]; Fall 05 [984]; Sp. 08 [516]; Fall 10 [746]; Fall 13 [135]; Spring 17 [68]; Spring 18 [71])

GEOL 577: Environmental Geophysics (Sp. 04 [9]; Fall 06 [8]; Fall 07 [9]; Sp. 09 [7]; Fall 16 [11])

GEOL 578/791: Seismic Data Analysis and Interpretation (Sp. 13 [13]; Sp. 14 [7]; Sp. 15 [14]; Sp. 16 [8])

GEOL 591/791: Advanced Topics in Geology: Imperial Barrel Award (Sp. 09 [2]; Sp. 13 [5]; Sp. 14 [7]; Sp. 16 [5]; Sp. 17 [5])

GEOL 771: Advanced Geophysics: Advanced Seismic Interpretation Methods (Sp. 17 [11])

GEOL 771: Advanced Geophysics: Ground-Penetrating Radar (Fall 03 [5]; Sp. 05 [9]; Sp.07 [8]; Fall 08 [6]; Fall 10 [11]; Fall 12 [7]; Fall 14 [10])

GEOL 771: Advanced Geophysics: Near Surface Geophysics (Sp. 11 [9]; Sp. 12 [7])
 GEOL 771: Advanced Geophysics: Inversion of Geophysical Data (Fall 11 [9])
 GEOL 771: Advanced Geophysics: Fluid Injection Induced Seismicity (Sp. 16 [7])
 GEOL 791: Advanced Topics in Geology: KS Seismicity (Sp. 15 [4])
 GEOL 791: Advanced Topics in Geology: Petroleum Exploration Methods (Fall 16 [8])

1990: Graduate Teaching Assistant, Virginia Polytechnic Institute and State University
 GEOL 4144: Geophysics of the Earth's Interior

III) Industry and Government

1999 – 2003: Exploration Geophysicist (GS-12), U.S. Department of the Interior, Minerals Management Service, Gulf of Mexico Region, Resource Evaluation, New Orleans, LA. Team Leader of the Geophysical Technology Team. Provided geophysical support and training to regional office of ~400 professionals. Evaluated new producible leases and hydrocarbon reserves in deep-water and subsalt environments.

1996 – 1998: Exploration Geophysicist, Jones Energy, Ltd., Austin, TX (half-time professional position while pursuing Ph.D. degree at UT Austin). Developed hydrocarbon exploration prospects and drilled wells in the West Anadarko Basin.

1991 – 1995: Exploration Geophysicist, Mobil Exploration and Producing US, New Orleans, LA. Developed hydrocarbon prospects and drilled wells in offshore Gulf of Mexico region. Oversaw the acquisition of marine 3-D seismic surveys and borehole logging operations.

IV) Professional Development

2000 – 2001: US Department of the Interior, Team Leadership Program. Completed 12 month management development program. Served in Washington, DC as Senior Analyst to the Office of Policy Analysis on national energy policy, and to the Office of Budget on Congressional Appropriations Committee actions.

Honors and Awards

I) Academic

2017 Greek Diaspora Fellowship Program (www.iie.org/GreekDiaspora), Stavros Niarchos Foundation, Institute of International Education, Fulbright Foundation of Greece (\$16,550).

2017 The University of Kansas, Competitive Sabbatical Leave Award: “*Developing New Microseismicity Detection and Analysis Methods for Monitoring Induced Earthquakes in Kansas*”.

2017 1st Place, American Association of Petroleum Geologists (AAPG) Imperial Barrel Award (IBA) student competition, Mid-Continent Section. University of Kansas team Faculty Mentor.

2017 University of Kansas Undergraduate Research Symposium, Outstanding Student Presentation Award to Zalma Molina. Faculty Mentor.

2016 The University of Kansas, Dept. of Geology, Leo M. and Robert M. Orth Water Resources Award (\$2,500).

2014 3rd Place, American Association of Petroleum Geologists (AAPG) Imperial Barrel Award (IBA) student competition, Mid-Continent Section University of Kansas team Faculty Mentor.

- 2013 3rd Place, American Association of Petroleum Geologists (AAPG) Imperial Barrel Award (IBA) student competition, Mid-Continent Section University of Kansas team Faculty Mentor.
- 2011 Nominated by students for the CLAS “Byron A.Alexander/John C. Wriugh Graduate Mentor Awards”.
- 2011 Society of Sedimentary Geology 2011 AAPG/SEPM Annual Meeting, *Excellent Technical Presentation Citation*.
- 2009 – 2010 Visiting Professorship of Hydrogeophysics, Politecnico di Torino, Italy (EUR 34,000).
- 2009 Herbette Fellow, Institute of Geophysics, University of Lausanne, Switzerland (CHF 12,000).
- 2009 – 2010 The University of Kansas, Competitive Sabbatical Leave Award: “*Geophysical characterization of fractured rock hydrologic properties through a) inversion of ground penetrating radar data, and b) integrated geophysical research studies*”.
- 2008 The University of Kansas, Dept. of Geology, Jan F. and Mary L. van Sant Geology Excellence Award, “*For an outstanding program of research and teaching*” (\$6,000).
- 1999 Society of Exploration Geophysicists (SEG) 69th Annual Meeting, *Distinguished Speaker Citation*.
- The University of Texas at Austin, Dept. of Geol. Sci., *Best Technical Presentation*, “Hydrogeologic Characterization of Fractured Carbonate Aquifers Using Ground-Penetrating Radar”.
- 1998 – 1999 The University of Texas at Austin, Geology Foundation, Banks Memorial Scholarship.
- The University of Texas at Austin, University Fellowship.
- 1998 Geological Society of America (GSA), Graduate Student Research Grant Award.
- The University of Texas at Austin, Geology Foundation Research Grant.
- The University of Texas at Austin, Institute for Geophysics, Ewing-Worzel Fellowship.
- 1997 Geological Society of America (GSA), Outstanding Student Research Award.
- Geological Society of America (GSA), Graduate Student Research Grant Award.
- Gulf Coast Association of Geological Societies (GCAGS) Student Research Grant.
- The University of Texas at Austin, Geology Foundation Research Grant.
- The University of Texas at Austin, Geology Foundation, Wendler Development Fund.
- 1996 The University of Texas at Austin, Institute for Geophysics, Ewing -Worzel Fellowship.
- 1988 Virginia Polytechnic Institute and State University, Department of Geological Sciences, Amoco Fellowship.

II) Professional

- 2002 U.S. Department of the Interior, Minerals Management Service, “Star Award”.
- 2001 U.S. Department of the Interior, Minerals Management Service, “Spot Award”.
- 2000 U.S. Department of the Interior, Minerals Management Service, “Star Award”.
- 1995 Mobil Oil, Central Gulf Team, “Outstanding Service Award”.

Professional Affiliations

Society of Exploration Geophysicists (SEG)
 Near Surface Section of SEG (NSG)
 Geophysical Society of Houston (GSH)
 Geological Society of America (GSA)
 American Geophysical Union (AGU)

European Association of Geoscientists and Engineers (EAGE)
Sigma Gamma Epsilon (ΣΓΕ) Honor Society of Earth Sciences

Research Funding (External)

Software donations for geophysical research and teaching:

2013 – present, *Hampson-Russell Limited Partnership, CGG*: Seismic Interpretation Software License Donation to the University of Kansas, \$3,088,000 annually.

2011 – present, *OMNI and VISTA, Schlumberger*: Seismic Acquisition and Processing Software License Donation to the University of Kansas, \$1,036,725 annually

Competitive external research funding:

2010 – present *Kansas Interdisciplinary Carbonates Consortium (KICC)*: A Fully Integrated Research and Training Program in Carbonate Systems. Co-PI (PIs R. Goldstein, E. Franseen, G. Rankey) \$585,000 annually, \$2.6M total.

2011– 2017 *US Department of Energy/NETL Office of Fossil Energy*, Small Scale Field Test Demonstrating sequestration in Arbuckle Saline Aquifer and by CO₂-EOR at Wellington Field, Sumner County, Kansas, Co-I Tsoflias (PIs W. L. Watney, J. Rush) \$13,983,734.

2013 – 2015 *MWH Americas Inc*, Santa Susana Field Laboratory Pilot Seismic Study, PI Tsoflias (Co-PI R. Miller KU) \$273,372.

2010 – 2015 *National Science Foundation, Renewal Proposal Science and Technology Center: Center for Remote Sensing of Ice Sheets (CReSIS)*. Co-I among 13 KU investigators, Tsoflias annual expenditures ~\$100,000 (Lead PI S. Gogineni), total award \$17,976,000.

2011 – 2014 *NASA*: Determination of Ice and Basal Properties of Outlet Glaciers, N. Greenland. Graduate Fellowship to Ph.D. student Jose Vélez, sole PI Tsoflias \$121,500.

2011 – 2013 *National Science Foundation, EAR Instrumentation and Facilities*, Upgrade of a GPR System for Field Investigations, Student Training and Enhancement of Outreach Activities at the University of Kansas, sole PI \$141,439.

2010 – 2012 *US Department of Energy, Enhanced Geothermal Systems*, Verification of Geothermal Tracer Methods in Highly Constrained Field Experiments. Subaward to KU, sole PI \$182,867 (M. Becker, California State University Long Beach PI \$353,708).

2009 – 2011 *US Department of Energy, Environmental Remediation Sciences Program*, Exploratory Collaborative Research: Verification of Hydraulic Tomography and Tracer Testing using Ground Penetrating Radar. Subaward to KU, sole PI \$35,025 (M. Becker, California State University Long Beach PI \$112,020).

2008 – 2013 *National Science Foundation*, Integrative Graduate Education and Research Training (IGERT) project: C-CHANGE: Climate Change, Humans, and Nature in the Global Environment. Participating Faculty among 40 KU investigators (Lead PI J. Nagel) \$3,025,000.

2005 – 2010 *National Science Foundation*, Science and Technology Center: Center for Remote Sensing of Ice Sheets (CReSIS). Co-I among 16 KU investigators, Tsoflias expenditures \$420,000 (Lead PI S. Gogineni), total award \$18,950,000.

2008 – 2010 *Hess Oil Company*, Stratigraphic and Hydrocarbon Reservoir-analog Character for Uppermost Miocene Oolitic, Thrombolitic, Stromatolitic, Coral Reef Systems, Ricardillo and La Molata, SE Spain. Co-PI (PI R. Goldstein, Co-PI E. Franseen) \$25,000.

- 2007 – 2010 *National Science Foundation, EAR Earthscope Science*, Collaborative Research: How is Strain of the Eastern California Shear Zone Transferred Across the Garlock Fault? KU Co-PI \$168,610 (KU PI D. Walker).
- 2008 *National Science Foundation and University of Texas at Austin*, Improved Carbonate Facies and Bulk Pore Volume Mapping Using Cross Well Tomography. Subaward to KU, sole PI Tsoflias \$24,421 (UT Austin PI T. Arbogast).
- 2006 – 2008 *Kansas Department of Transportation*, Use of Surface and Borehole Ground-Penetrating Radar in Geologic and Engineering Investigations of Transportation Projects. PI \$57,500.
- 2005 – 2007 *American Chemical Society, Petroleum Research Fund, G*, Investigation of the Controls of Electromagnetic Wave Propagation Through Fractures. PI, \$35,000.
- 2003 – 2007 *US Department of Energy, Environmental Management Science Program*, Automatic Shallow 3D Seismic Imaging. Co-PI Tsoflias expenditures \$369,000 (PI D. Steeples) total award \$820,000.
- 2006 – 2007 *Saudi Aramco Oil Company*, Phase 1 – Development of 3-D Models for Basin-Floor Carbonate Reservoir Analogs, Miocene, SE Spain. Co-I \$9,500 (PI E. Franseen, Co-PIs R. Goldstein, A. Byrnes).
- 2005 – 2006 *ExxonMobil*, Phase 1 – Development of 3-D Models for Basin-Floor Carbonate Reservoir Analogs, Miocene, SE Spain. Co-I \$9,500 (PI E. Franseen, Co-PIs R. Goldstein, A. Byrnes).
- 2004 – 2005 *National Science Foundation, EAR Instrumentation and Facilities*, Acquisition of a Ground Penetrating Radar System. PI, \$61,467.

Research Funding (Internal)

- 2016 – 2018 *The University of Kansas Center for Research, General Research Fund*, Evaluating Geophysical Imaging Methods in the Flint Hills, KS. Co-PI \$7,656 (Co-PI G. Macpherson).
- 2013 – 2016 *CLAS Course Transformation Initiative*, Department of Geology Transformation Initiative: Transforming Introductory Major and Service Courses to Enhance Student Learning. PI L. Gonzalez, Co-I with J. Roberts, A. Olcott Marshall, A. Moeller, G. Macpherson, \$225,000.
- 2007 – 2008 *Kansas University Transportation Research Institute*, Development of Three-Dimensional Full Wave Field Seismic Imaging Technology for Transportation Infrastructure Projects. PI \$68,092 (Co-PIs D. Steeples, R. Parsons).
- 2006 – 2007 *The University of Kansas Center for Research, General Research Fund*, Imaging the Deformational History of Alluvial Fans Cut by Active Faults Using Shallow Seismic Reflection and GPR Techniques. Co-PI \$7,666 (Co-PI R. Black).
- 2007 *The University of Kansas Office of the Vice Provost for Research, Undergraduate Research Assistantship Fund*, Summer 2007. PI \$1,250.
- 2006 *The University of Kansas Office of the Vice Provost for Research, Undergraduate Research Assistantship Fund*, Summer 2006. PI \$1,250.
- 2004 – 2005 *The University of Kansas Center for Research, New Faculty General Research Fund*, Controlled Experiment of Ground-Penetrating Radar Wavefield Transmission Through a Simulated Vertical Fracture Plane. PI, \$8,000.

Publications

I) Major peer-reviewed publications (indicates student advisees; ** invited submission; first author is principal author; authorship order reflects level of contribution)*

1. Schneider B. B.*, **Tsoflias G. P.**, Steeples D., Mandel R. and J. Hofman (2018), Bone Permittivity and its Effect on Using Ground-Penetrating Radar, *Geophysics*, Vol. 83, No. 1, p. H1-H11, doi:10.1190/GEO2017-0128.1.
2. Nolte K.A.*, **Tsoflias G.P.**, Bidgoli T.S. and L.W. Watney (2017), Shear-Wave Anisotropy Reveals Pore Fluid Pressure-Induced Seismicity in the US Midcontinent, *Science Advances*, 3, e1700443 (2017).
3. Hawkins A., Becker M. and **Tsoflias G. P.** (2017), Evaluation of Inert Tracers in a Bedrock Fracture Using Ground Penetrating Radar and Thermal Sensors, *Geothermics*, 67, p. 86-94, <http://dx.doi.org/10.1016/j.geothermics.2017.01.006>.
4. Miller B.*, Sloan S., **Tsoflias G.** and D. Steeples (2017), The 3D Autojuggie: Automating Acquisition of 3D Near-Surface Seismic Reflection Data, *Near Surface Geophysics*, 15, p. 3-11, doi:10.3997/1873-0604.2016035.
5. Ivanov J., **Tsoflias G. P.**, Miller R., Peterie S., Morton S. and J. Xia (2016), Impact of Density Information on Surface Wave Inversion Results, *Journal of Applied Geophysics*, 135, p. 43-54 doi:10.1016/j.jappgeo.2016.09.011.
6. Shao G., **Tsoflias G. P.** and C. Li (2016), Detection of Near-Surface Cavities by Generalized S-transform of Rayleigh Waves, *Journal of Applied Geophysics*, 129, p. 53-65, doi: 10.1016/j.jappgeo.2016.03.041.
7. Schneider B. B.*, Mandel R., **Tsoflias G. P.**, De Vore S. L and M. Lynott (2016), Combining ER and GPR Surveys for Evidence of Prehistoric Landscape Construction: A Case Study at Mound City, Ohio, USA, *Journal of Applied Geophysics*, 129, p. 178-186, doi: 10.1016/j.jappgeo.2016.04.002.
8. Vélez J. A.*, **Tsoflias G. P.**, Black R., C. J. Van der Veen and S. Anandkrishnan (2016), Distribution of Preferred Ice Crystal Orientation Determined from Seismic Anisotropy: Evidence from Jakobshavn Isbræ and the North Greenland Eamian Ice Drilling Facility, *Greenland, Geophysics*, Vol 81, No 1, p. WA111-WA118, doi:10.1190/geo2015-0154.1.
9. **Tsoflias G. P.****, Perll C.*, Baker M.* and M. Becker (2015), Cross Polarized GPR Imaging of Fracture Flow Channeling, *Journal of Earth Science*, Vol 26, No 6, p. 776-784, doi:10.1007/s12583-015-0612-1.
10. Zhu H.*, Wang D-L. and **G. P. Tsoflias** (2015), Seismic Interferometry in Parabolic Radon Domain, *Journal of Seismic Exploration*, Vol 24, No 1, p. 37-50.
11. Zeng C.*, Xia J., Miller R. D., **Tsoflias G. P.** and Z. Wang (2012), Numerical Investigation of MASW Applications in Presence of Surface Topography, *Journal of Applied Geophysics*, Vol. 84 (2012), p. 52-60, doi: 10.1016/j.jappgeo.2012.06.004.
12. Zeng C.*, Xia J., Miller R. D. and **G. P. Tsoflias** (2012), An Improved Vacuum Formulation for 2D Finite-Difference Modeling of Rayleigh Waves Including Surface Topography and Internal Discontinuity, *Geophysics*, Vol. 77, No.1, p. T1-T9, doi:10.1190/geo2011-0067.1.
13. McGlashan M. A.*, **Tsoflias G. P.**, Devlin J. F., P. C. Schillig* and J. A. Roberts (2012), Field GPR Monitoring of Biostimulation in Saturated Porous Media, *Special Issue on Techniques of Near-Surface Seismic and Ground-Penetrating Radar Imaging*, *Journal of Applied Geophysics*, Vol. 78 (2012), p. 102-112, doi: 10.1016/j.jappgeo.2011.08.006.
14. Devlin J. F, Schillig P. C.*, Bowen I., Critchley C. E., Rudolph D. L., Thomson N. R., **Tsoflias G. P.** and J. R. Roberts (2011), Applications and Implications of Direct Groundwater Velocity Measurement

- at the Centimeter Scale, *Journal of Contaminant Hydrology*, Vol. 127 (2012), p. 3-14, CONHYD-02720, doi:10.1016/j.jconhyd.2011.06.007.
15. Zeng C.*, Xia J., Miller R. D. and **G. P. Tsoflias** (2011), Feasibility of Waveform Inversion of Rayleigh Waves for Shallow Shear-Wave Velocity Using Genetic Algorithm, *Journal of Applied Geophysics*, Vol. 75 (2011), p. 648-655, doi: 10.1016/j.jappgeo.2011.09.028.
 16. Zeng C.*, Xia J., Miller R. D. and **G. P. Tsoflias** (2011), Application of the Multiaxial Perfectly Matched Layer to Near-Surface Seismic Modeling with Rayleigh Waves, *Geophysics*, Vol. 76, No. 3, p. T43-T52, doi:10.1190/1.3560019.
 17. Schillig P. C.*, Devlin J. F., Roberts J. A., **Tsoflias G. P.** and M. A. McGlashan* (2011), Transient Heterogeneity in an Aquifer Undergoing Bioremediation of Hydrocarbons, *Ground Water*, Vol. 49, No 2, p. 184-196, doi: 10.1111/j.1745-6584.2010.00682.x.
 18. Becker M. and **G. P. Tsoflias** (2010), Comparing Flux-Averaged and Resident Concentration in a Fractured Bedrock Using GPR, *Water Resour. Res.*, 46, W09518, doi:10.1029/2009WR008260.
 19. Schillig P. C.*, **Tsoflias G. P.**, Roberts J. A., E.M. Patterson and J. F. Devlin (2010), Ground Penetrating Radar Observations of Enhanced Biological Activity in a Sandbox Reactor, *J. Geophys. Res. - Biogeosciences*, Special Issue on Biogeophysics, 115, G00G10, doi:10.1029/2009JG001151.
 20. Sloan S. D., **Tsoflias G. P.** and D. W. Steeples (2010), Ultra-Shallow Seismic Imaging of the Top of the Saturated Zone, *Geophys. Res. Lett.*, 37, L07405, doi:10.1029/2010GL043034.
 21. Sloan S. D.*, Steeples D. W. and **G. P. Tsoflias** (2009), Ultra-Shallow Imaging Using 3D Seismic Reflection Methods, *Near Surface Geophysics*, Special Issue on Hydrogeophysics Methods and Processes, Vol. 7, No. 5, p. 307-314.
 22. Devlin J. F., **Tsoflias G.**, McGlashan M.* and P. Schillig* (2009), An Inexpensive Multilevel Array of Sensors for Direct Ground Water Velocity Measurement, *Ground Water Monitoring and Remediation* Vol. 29, No. 2, p. 73-77, doi:10.1111/j.1745-6592.2009.01233.x.
 23. Christie M.*, **Tsoflias G. P.**, Stockli D. and R. A. Black (2009), Assessing Off-Fault Deformation at an Extensional Tectonic Setting Using 3-D GPR Imaging, *Journal of Applied Geophysics*, Special Issue on Techniques of Near-Surface Seismic and Ground-Penetrating Radar Imaging, Vol. 68, No. 1, p. 9-16, doi:10.1016/j.jappgeo.2008.10.013.
 24. Vincent P. D.*, **Tsoflias G. P.**, Steeples D. W. and R. A. Black (2009), Evaluating the Effect of the Joining Platform to Seismic Data Acquired by Geophones Mounted to Rigid Media, *Journal of Applied Geophysics*, Vol. 68, No. 2, p. 146-150, doi:10.1016/j.jappgeo.2008.10.010.
 25. **Tsoflias G. P.**** (2008), GPR Imaging of Dual-Porosity Rocks: Insights to Fluid Flow, The Leading Edge, November 2008 Special Issue on Near-Surface Geophysics, Vol. 27, No. 11, p. 1436-1445.
 26. **Tsoflias G. P.** and M. Becker (2008), Ground Penetrating Radar Response to Fracture Fluid Salinity: Why Lower Frequencies are Favorable for Resolving Salinity Changes, *Geophysics*, Vol. 73, No. 5, p. J25-J30, doi:10.1190/1.2957893.
 27. Eslick R.*, **Tsoflias G. P.** and D. W. Steeples (2008), Field Investigation of Love Waves in Near-Surface Seismology, *Geophysics*, Vol. 73, No. 3, p. G1-G6, doi:10.1190/1.2901215.
 28. Horgan H. J., Anandakrishnan S., Alley R. B., Peters L. E., **Tsoflias G. P.**, Voigt D. E., and J. P. Winberry (2008), Complex Fabric Development Revealed by Englacial Seismic Reflectivity: Jakobshavn Isbræ, Greenland, *Geophys. Res. Lett.*, 35, L10501, doi:10.1029/2008GL033712.
 29. Sloan S. D.*, **Tsoflias G. P.** and D. W. Steeples (2007), Shallow Seismic AVO Variations Related to Partial Water Saturation During a Pumping Test, *Geophys. Res. Lett.*, 34, L22405, doi:10.1029/2007GL031556.

30. Sloan S. D.*, **Tsoflias G. P.**, Steeples D. W. and P. D. Vincent* (2007), High-Resolution Ultra-Shallow Subsurface Imaging by Integrating Near-Surface Seismic Reflection and Ground-Penetrating Radar Data in the Depth Domain, *Journal of Applied Geophysics*, Vol. 62, No. 3, p. 281-286 doi:10.1016/j.jappgeo.2007.01.001.
31. **Tsoflias G. P.** and A. Hoch* (2006), Investigating Multi-Polarization GPR Wave Transmission Through Thin Layers: Implications for Vertical Fracture Characterization, *Geophys. Res. Lett.*, 33, L20401, doi:10.1029/2006GL027788.
32. **Tsoflias G. P.**, Steeples D. W., Czarnecki G.*, Sloan S. D.* and R. C. Eslick* (2006), Automatic Deployment of a 2-D Geophone Array for Efficient Ultra-Shallow Seismic Imaging, *Geophys. Res. Lett.*, 33, L09301, doi:10.1029/2006GL025902.
33. Vincent P. D.*, **Tsoflias G. P.**, Steeples D. W. and S. D. Sloan* (2006), Fixed-Source and Fixed-Receiver Walkaway Seismic Noise Tests: A field Comparison, *Geophysics*, Vol. 71, No. 6, p. W41-W44.
34. **Tsoflias G. P.**, Van Gestel J. P., Stoffa P., Blankenship D. and M. Sen, (2004) Vertical Fracture Detection by Exploiting the Polarization Properties of GPR Signal, *Geophysics*, Vol. 69, No. 3, p. 803-810.
35. **Tsoflias G. P.**, Halihan T. and J. M. Sharp, Jr. (2001), Monitoring Pumping Test Response in a Fractured Aquifer Using Ground Penetrating Radar, *Water Resour. Res.*, Vol. 37, No. 5, p.1221-1229.
36. Wilson C. R., **Tsoflias G. P.**, Bartelmann M. and J. Phillips (1997), A High Precision Aeromagnetic Survey Near the Glen Hummel Field in Texas; Identification of Cultural and Sedimentary Anomaly Sources, *The Leading Edge*, Vol. 16, No. 1, p. 37-42.
37. **Tsoflias G. P.**, Bollinger G. A. and J. K. Costain (1995), Common Cyclicities in the Seismicity and Water Level Fluctuations at the Charlevoix Seismic Zone of the St. Lawrence River, Quebec, Canada, *Journal of Geodynamics*, Vol. 19, No. 2, p. 117-139, doi:10.1016/0264-3707(94)00008-J.
38. **Tsoflias G. P.** (1991), A Note on the Goochland County, Virginia, Earthquake of March 15, 1991, *Seismological Research Letters*, Vol. 62, No. 3-4, p. 225-231.

II) Minor publications and refereed conference transactions (indicates student advisees, ** indicates invited presentation, † indicates presenter if not first author; submissions were either accepted, rejected or returned for minor revision; first author is principal author; authorship order reflects level of contribution)*

39. Schneider B.B.* and **G.P. Tsoflias** (2017), GPR Polarization Effects of Buried Bison Bone, *Society of Exploration Geophysicists 87th Annual Meeting Transactions*, p. 5135-5139, doi:10.1190/segam2017-17682555.1.
40. Becker M, **Tsoflias G.**, Baker M.* and A. Hawkins (2015), Confirmation of Hydraulic, Tracer and Heat Transfer Characterization of a Fractured Bedrock Using Ground Penetrating Radar, *Proceedings, Fortieth Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, California, January 26-28, 2015, SGP-TR-204*, 11 pages.
41. Ivanov J., **Tsoflias G. P.** and R. D. Miller (2014), Near-Surface Qs and Qp Estimations from Rayleigh Waves Using Multi-Channel Analysis of Surface Waves (MASW) at an Arctic Ice-Sheet Site, *Society of Exploration Geophysicists 84th Annual Meeting Transactions*, p. 2006-2012, doi: 10.1190/segam2014-0887.1.
42. **Tsoflias G.P.** (2014), Borehole GPR Direct and Refracted Arrivals for Determination of Subsurface Void Dimensions, *EAGE Near Surface Geoscience, Athens, Greece, 14-18 September, 2014*, 5 pages.

43. **Tsoflias G.P.****, Perll C.*, Baker M.* and M. Becker (2014), Investigation of Cross-Polarized GPR Signals for Imaging Fracture Flow Channeling, 6th International Conference on Environmental and Engineering Geophysics, Xi'An, China, June 19-22, 2014, 6 pages.
44. **Tsoflias G. P.****, Baker M. and M. Becker, Imaging Fracture Anisotropic Flow Channeling Using GPR Signal Amplitude and Phase (2013), Society of Exploration Geophysicists 83rd Annual Meeting Transactions, Houston, Texas, p. 4428-4433, DOI <http://dx.doi.org/10.1190/segam2013-1134.1>.
45. **Tsoflias G. P.****, Hoch A. M.*, Arntsen A. E.*, Godaire T. P.*, Stearns L. A. and C. J. Van der Veen (2013), Internal Ice Layer and Bed Mapping of the Jakobshavn Glacier Catchment Using Airborne Radar: Insights to a Fast Flowing Outlet Glacier, SEG-AGU Workshop on Cryosphere Geophysics: Understanding a Changing Climate with Subsurface Imaging, Boise, Idaho, 6-8 January, 2013, 5 pages [**Keynote Speaker**].
46. Vélez J. A.*, **Tsoflias G. P.†**, Anandakrishnan S. and C. J. Van der Veen (2013), Evidence of Preferred Ice Crystal Orientation at Jakobshavn Glacier Based on Seismic Anisotropy Observations, SEG-AGU Workshop on Cryosphere Geophysics: Understanding a Changing Climate with Subsurface Imaging, Boise, Idaho, 6-8 January, 2013, 6 pages.
47. Becker M. W., Remmen K., Reimus P. W. and **G. P. Tsoflias** (2013), Investigating Well Connectivity Using Ionic Tracers, Proceedings, Thirty-Eighth Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, California, February 11-13, 2013, SGP-TR-198, 9 pages.
48. Miller B.*, R. Black and **G. P. Tsoflias** (2012), High Resolution Seismic Reflection Imaging of the Emigrant Peak Fault and Associated Alluvial Material, Fish Lake Valley, Nevada, Society of Exploration Geophysicists 82nd Annual Meeting Transactions, 4 pages, doi:10.1190/segam2012-1540.1
49. Benson B.*, **Tsoflias G. P.** and R. Mandel (2012), Geophysical Investigations of the Mound City Borrow Pits, Ross County, Ohio, Society of Exploration Geophysicists 82nd Annual Meeting Transactions, 4 pages, doi:10.1190/segam2012-1109.1.
50. **Tsoflias G. P.**** and D. W. Steeples (2011), High Resolution Characterization of the Near Surface: GPR and Seismic Reflection Methods, 73rd EAGE Conference Workshop, Vienna, Austria, May 22-26, 2011 (3 pages) (invited).
51. Hoch. A. M.*, Vélez, J. A.*, **Tsoflias G. P.**, Stearns L. A. and C. J. van der Veen (2011), Multi-Channel Coherent Radar Depth Sounding of Jakobshavn Isbræ and its Catchment, 2011 IEEE Radar Conference, Kansas City, Missouri, May 23-27, 2011, p 1135-1137.
52. **Tsoflias G. P.** (2010), Use of Surface and Borehole Ground Penetrating Radar in Geologic and Engineering Investigations of Transportation Projects, Transportation Research Board Monograph <http://trid.trb.org/view.aspx?id=916303>, Kansas Dept. of Transportation Report No. K-TRAN: KU-06-8, pages 87.
53. Miller B.*, **Tsoflias G. P.** and D. Steeples (2010), New Innovations in Near-Surface 3-D Acquisition, Symposium on Kansas Geophysics in the 21st Century, Wichita, Kansas USA, October 27-29, 2010 (4 pages).
54. Knoph K.*, **Tsoflias G.**, Franseen E and R. Goldstein (2010), Ground-Penetrating Radar Imaging of Facies Distribution in a Carbonate Reservoir Analog, Symposium on Kansas Geophysics in the 21st Century, Wichita, Kansas USA, October 27-29, 2010 (4 pages).
55. Miller B.*, **Tsoflias G. P.** and D. Steeples (2010), 3-D Design for a Near-Surface Seismic Reflection Investigation, Society of Exploration Geophysicists 80th Annual Meeting Transactions p. 1993-1998.
56. Sloan S. D., **Tsoflias G. P.**, Steeples D. W. and J. R. McKenna (2010), Ultra Shallow Seismic Imaging of the Top of the Saturated Zone, Society of Exploration Geophysicists 80th Annual Meeting Transactions p. 1960-1964.

57. Godio A., **Tsoflias G. P.**, Piatti C., Rege R. and V. Socco (2010), Joint Use of Seismic Surface Waves and Multioffset GPR for Sandy Soil Characterization, Society of Exploration Geophysicists 80th Annual Meeting Transactions p. 1887-1891.
58. Cheng K.*, Leuschen C. and **G. Tsoflias** (2010), Investigation of Radar Subsurface Sounding Through Seasonal Cycles Collected by Mars Shallow Radar (SHARAD) in the South Polar Area, IEEE 30th International Geoscience and Remote Sensing Symposium (IGARSS), Honolulu, Hawaii, USA, July 25-30, 2010 (4 pages).
59. Devlin J. F., Schillig P. C., Bowen I., Rudolph D. L., Thomson N. R., **Tsoflias G. P.** and J. R. Roberts (2010), Applications and Implications of Direct Groundwater Velocity Measurement at the Centimeter Scale, GQ10: Groundwater Quality Management in a Rapidly Changing World, Proc. 7th International Groundwater Quality Conference, Zurich, Switzerland, June 13-18, 2010, p. 50-53.
60. Miller B.*, **Tsoflias G. P.** and D. W. Steeples (2009), Automated Geophone Deployment on Pavement for High Resolution Seismic Reflection Investigations in Support of Transportation Infrastructure Projects, Society of Exploration Geophysicists 79th Annual Meeting Transactions, p. 1430-1434.
61. Zeng C.*, Xia J., Miller R. D. and **G. P. Tsoflias** (2009), Modeling Results on Detectability of Shallow Tunnels Using Rayleigh Wave Diffraction, Society of Exploration Geophysicists 79th Annual Meeting Transactions, p. 1425-1429.
62. Sloan S. D., Steeples D. W. and **G. P. Tsoflias** (2009), Automating the Acquisition of 3D Near-Surface Seismic Reflection Data, Society of Exploration Geophysicists 79th Annual Meeting Transactions, p. 1315-1319.
63. Ivanov J., **Tsoflias G. P.**, Miller R. M., and J. Xia (2009), Practical Aspects of MASW Inversion Using Varying Density, 22nd Symposium on the Application of Geophysics to Engineering and Environmental Problems Transactions, p. 171-177.
64. **Tsoflias G. P.**, Ivanov J., Anandakrishnan S. and R. M. Miller (2008), Use of Active Source Seismic Surface Waves in Glaciology, 21st Symposium on the Application of Geophysics to Engineering and Environmental Problems Transactions, p. 1240-1243.
65. Ivanov J., Miller R. M., and **G. P. Tsoflias** (2008), Some Practical Aspects of MASW Analysis and Processing, 21st Symposium on the Application of Geophysics to Engineering and Environmental Problems Transactions, p. 1186-1198.
66. Sloan S. D.*, Steeples D. W., and **G. P. Tsoflias** (2008), Imaging a Shallow Paleo-Channel Using 3D Ultra-Shallow Seismic Reflection Methods, 21st Symposium on the Application of Geophysics to Engineering and Environmental Problems Transactions, p. 568-576.
67. **Tsoflias G. P.** and Becker M. W. (2007), Multi-frequency Investigation of GPR Amplitude and Phase Response to Fracture Fluid Salinity, Society of Exploration Geophysicists 77th Annual Meeting Transactions, p. 1157-1160.
68. Eslick R.*, **Tsoflias G. P.** and Steeples D. W. (2007), Field investigation of Love waves in near-surface seismology, Society of Exploration Geophysicists 77th Annual Meeting Transactions, p. 1217-1221.
69. Sloan S. D.*, **Tsoflias G. P.** and Steeples D. W. (2007), Seismic AVO variations related to partial water saturation during a pumping test, Society of Exploration Geophysicists 77th Annual Meeting Transactions, p. 1212-1216.
70. McGlashan M. A.*, **Tsoflias, G. P.**, Schillig, P. C.* and J. F. Devlin (2006), Estimating Groundwater Flow Velocity Using Borehole GPR and Point Velocity Probes, Proceedings of the Eleventh International Conference on Ground Penetrating Radar, June 19-22, 2006, Columbus Ohio. HYD.3, p. 1-5.

71. Czarnecki G. P.*, **Tsoflias G. P.**, Steeples D. W., Sloan S. D.* and R. C. Eslick* (2006), An Example of Automated 3D Ultra-Shallow Seismic Acquisition, Society of Exploration Geophysicists 76th Annual Meeting Transactions, p. 1461-1465.
72. Sloan S. D.*, **Tsoflias G. P.** and Steeples D. W., (2006), Frequency Effects of the Partially Water-Saturated Zone Thickness on Shallow Seismic Reflection Data, Society of Exploration Geophysicists 76th Annual Meeting Transactions, p. 1362-1366.
73. **Tsoflias G. P.** and A. Hoch* (2005), Relating GPR Signal Response to Simulated Vertical Fracture Properties, Society of Exploration Geophysicists 75th Annual Meeting Transactions, p. 1168-1171.
74. **Tsoflias G. P.**, Steeples D, and R. Black (2005), Hydrogeophysics research at the University of Kansas: EEGS Publication, Fast Times, Vol. 10, No. 1, p. 27.
75. Miller R. D., Xia J., Steeples D., Black R., and **G. P. Tsoflias** (2005), Applied research in high-resolution seismic reflection at KU: EEGS Publication, Fast Times, Vol. 10, No. 1, p. 26-27.
76. Healey J. M., **Tsoflias G. P.**, Steeples D. W., Vincent P.*, Sloan S. D.*, and C. D. McElwee (2005), Geophysical Techniques Applied to a Stream-Aquifer System, Kansas Geological Survey Open-File Report, No. 2005-11.
77. Sloan S. D.*, Vincent P. D.*, **Tsoflias G. P.** and D. W. Steeples (2005), Combining Near-Surface Seismic Reflection and Ground-Penetrating Radar in the Depth Domain, Society of Exploration Geophysicists 75th Annual Meeting Transactions, p. 1208-1211.
78. Vincent P. D.*, Steeples D. W., **Tsoflias G. P.** and S. D. Sloan* (2005), Two Approaches to Noise Tests, Society of Exploration Geophysicists 75th Annual Meeting Transactions, p. 1180-1183.
79. Rademacker T., Miller R., Xia J., Black R. and **G. Tsoflias** (2005), Enhancing the Vibroseis Technique Through Equipment Noise Reduction and Optimizing the Weighted Sum Signal, Society of Exploration Geophysicists 75th Annual Meeting Transactions, p. 33-36.
80. **Tsoflias G. P.**, Halihan T. and M. A. Muldoon (2004), Fracture Fluid Flow Properties Investigation Using GPR and Hydraulic Testing Methods, Proceedings of the Tenth International Conference on Ground Penetrating Radar, June 21-24, 2004, Delft, The Netherlands, E. Slob et al. (eds), Vol. II, p. 521-524.
81. Vincent P. D.*, Blair J. D., Steeples D. W., and **G. P. Tsoflias** (2004), Effect of Orientation of Hollow-Bar-Mounted Geophones on Airwave Coherency, Society of Exploration Geophysicists 74th Annual Meeting Transactions, p. 1345-1348.
82. **Tsoflias G.P.** (2003), Investigating Fluid Flow Properties of Fractured Formations Using Ground-Penetrating Radar, Society of Exploration Geophysicists 73rd Annual Meeting Transactions, p. 1166-1169.
83. Sharp J. M., Jr., Halihan T., Uliana M. M, **Tsoflias G. P.**, Landrum M. T. and R. Marrett (2000), Predicting Fractured Rock Hydrogeological Parameters from Field and Laboratory Data, Proceedings of the XXX IAH Congress on Groundwater: Past Achievements and Future Challenges, Cape Town, South Africa, Nov 26-Dec 1, 2000 , O. Sililo et al. (eds), A.A. Balkema, Rotterdam, p. 319-324.
84. **Tsoflias G. P.**, Van Gestel J. P., Stoffa P. and M. Sen, (1999) Detection of Vertical Fractures in Geologic Formations Using the Polarization Properties of Ground-Penetrating Radar Signal, Society of Exploration Geophysicists 69th Annual Meeting Transactions, p. 566-570.
85. **Tsoflias G. P.** and J. M. Sharp, Jr. (1998), Three-Dimensional Hydrogeologic Characterization of Fractured Carbonate Aquifers Using Ground-Penetrating Radar, Gulf Coast Association of Geological Societies Transactions, v XL VIII 1998, p. 439-447.

III) Conference abstracts and presentations (* indicates student advisees, ** indicates invited presentation; † indicates presenter if not first author; authorship order reflects level of contribution)

86. Nolte A.*, **Tsoflias G. P.**, Bidgoli T. S. and W. L. Watney (2018), Temporal Change in Shear-Wave Anisotropy Linked to Increased Pore Fluid Pressure in Kansas, 2018 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, March 11-13, 2018 (4 pages).
87. Haga L.*, **Tsoflias G. P.** and W. L. Watney (2018), Monitoring a Mississippian Reservoir CO₂ Injection at Wellington Oil Field by Utilizing Seismic Analysis Methods, 2018 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, March 11-13, 2018 (4 pages).
88. Villaneda-van Vloten I., González L. A., **Tsoflias G. P.** and J. Roberts (2018), Assessing Mechanisms of Beachrock Cementation Processes, 2018 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, March 11-13, 2018 (4 pages).
89. A. Philbin*, B. Frederick, M. Blum and **G. P. Tsoflias** (2017) Ground-Penetrating Radar Study of Fort Morgan Peninsula Holocene Beach Ridges as Sea-level Indicators, Abstract EP22A-05, Fall AGU Meeting, New Orleans, LA, December 11-15, 2017.
90. **Tsoflias G. P.**, Graham B.*, Haga L.* and W. Lynn Watney (2017) Seismic Reservoir Characterization for Assessment of CO₂ EOR at the Mississippian Reservoir in South-Central Kansas, Abstract NS33A-0054, Fall AGU Meeting, New Orleans, LA, December 11-15, 2017.
91. Nolte K. A*, **G. P. Tsoflias**, Bidgoli T. and W. L. Watney (2017) A new earthquake monitoring method? Change in shear-wave anisotropy as a tool to monitor induced seismicity in Kansas and Oklahoma, Abstract S13D-06, Fall AGU Meeting, New Orleans, LA, December 11-15, 2017.
92. Nolte K. A*, **G. P. Tsoflias**, Bidgoli T. and W. L. Watney (2017) Understanding induced seismicity: Temporal link between pore pressure increase and shear-wave anisotropy, Society of Exploration Geophysicists, Injection Induced Seismicity Workshop, Dallas, TX., USA, November 6-8, 2017.
93. Molina Z.*, Nolte K.* and **G. Tsoflias** (2017), An Overview of Injection Induced Seismicity in Kansas and Oklahoma, SACNAS National Conference, Salt Lake City, UT., USA, October 19 - 21, 2017.
94. Nolte K. A.*, **Tsoflias G. P.**, Bidgoli T. S., and W. L. Watney (2017), Monitoring Seismicity Near an Active CO₂ EOR Injection, in DOE NETL Mastering the Subsurface Through Technology Innovation, Partnerships and Collaboration: Carbon Storage and Oil and Natural Gas Technologies Review Meeting, Pittsburgh, PA, August 1-3, 2017.
95. Graham, B. L. *, Haga, L. N. *, Nolte, K. A. *, **Tsoflias, G. P.**, and W. L. Watney (2017), Fracture Mapping and Feasibility of Monitoring CO₂ *in situ* From Seismic Data at the Mississippian Carbonate Reservoir, Wellington Oil Field, South-Central Kansas, in DOE NETL Mastering the Subsurface Through Technology Innovation, Partnerships and Collaboration: Carbon Storage and Oil and Natural Gas Technologies Review Meeting, Pittsburgh, PA, August 1-3, 2017.
96. Molina Z.*, Nolte K.* and **G. Tsoflias** (2017), Injection Induced Seismicity in Sumner County, Kansas, KU Undergraduate Research Symposium, Lawrence, Kansas, July 28, 2017.
97. Molina Z.*, Nolte K.* and **G. Tsoflias** (2017), Monitoring Induced Seismicity in Sumner County, Kansas, KU Undergraduate Research Symposium, Lawrence, Kansas, April 22, 2017. Awarded "Outstanding Student Presentation".
98. Nolte A.*, **Tsoflias G. P.**, Bidgoli T. S. and W. L. Watney (2017), Understanding the Temporal-Spatial Relationship of Induced Seismicity in Southern Kansas, KU Graduate Research Symposium, Lawrence, Kansas, April 6, 2017.
99. Philbin A.*, Blum M., **G. Tsoflias** and W. Johnson (2017), Ground-Penetrating Radar Study of Gulf of Mexico Holocene Beach Ridges as Sea-Level Indicators, American Association of Petroleum Geologists Annual Convention Transactions, Houston, Texas, April 2-5, 2017.

100. Nolte A.*, **Tsoflias G. P.**, Bidgoli T. S. and W. L. Watney (2017), Direct Evidence of Pore Fluid Pressure Increases Inducing Seismicity in the US Midcontinent Through Analysis of Shear-Wave Anisotropy, 2017 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, March 5-7, 2017 (4 pages).
101. Nolte A.*, **Tsoflias G. P.** and W. L. Watney (2017), Monitoring the Northward Advance of Injection Induced Seismicity in Southern Kansas, 2017 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, March 5-7, 2017 (2 pages).
102. Graham B.*, **Tsoflias G. P.** and W. L. Watney (2017), Seismic Determination of Azimuthal Anisotropy in the Mississippian Chert and Arbuckle from 3D P-P Reflection Data in Wellington Field, South-Central Kansas, 2017 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, March 5-7, 2017 (4 pages).
103. Graham B.*, **Tsoflias G. P.** and W. L. Watney (2017), Re-processing of 3D Seismic for Enhanced Imaging of the Mississippian and Arbuckle at Wellington Field, South-Central Kansas, 2017 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, March 5-7, 2017 (4 pages).
104. Haga L.*, **Tsoflias G. P.** and W. L. Watney (2017), Time-Lapse Imaging of CO₂ Injection at the Mississippian Reservoir, Wellington Field, South-central Kansas, 2017 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, March 5-7, 2017 (4 pages).
105. **Tsoflias G. P.** and M. Becker (2016), GPR Phase Response to Fracture Saline Tracers, Abstract GP51B-1388, Fall AGU Meeting, San Francisco, Calif., December 12-16, 2016.
106. Nolte K*., **Tsoflias G. P.** and L. W. Watney (2016), Monitoring the Increase in Seismicity in South-Central Kansas, Abstract S43C-2871, Fall AGU Meeting, San Francisco, Calif., December 12-16, 2016.
107. Schneider B.* and **G. P. Tsoflias** (2016), GPR for Detecting Buried Animal Bones in Controlled Sandbox Experiments, Abstract NS43B-1926, Fall AGU Meeting, San Francisco, Calif., December 12-16, 2016.
108. Watney W.L., Bidgoli T.S., Victorine J., Simpson P., Holubnyak Y., Nolte K., **Tsoflias G.P.** †, Wreath D. and T.R. Birdie (2016) Continuous Pressure and Temperature Monitoring in Lower Arbuckle Saline Aquifer in Wellington Field, Sumner County, Kansas – Response to the M5.8 Pawnee Earthquake, Abstract S51E-3166, Fall AGU Meeting, San Francisco, Calif., December 12-16, 2016.
109. Schneider B.* and **G. P. Tsoflias** (2016), Modeling Permittivity for the Application of GPR for Detecting Buried Prehistoric Animal Bones, GSA Abstracts, v. 48, no. 7, GSA Annual Meeting, Denver, Colorado, September 25-28, 2016.
110. Nolte A.*, **Tsoflias G. P.** and W. L. Watney (2016), Monitoring the Increase in Seismicity in South-Central Kansas, G-Hawk Annual Symposium, Lawrence, Kansas, September 16, 2016 (3rd place award).
111. Sodré B.*, Nolte K* and **G. Tsoflias** (2016), Analysis of Earthquakes in Sumner County, South Central Kansas, KU Summer Undergraduate Research Poster Session, Lawrence, Kansas, July 29, 2016.
112. Nolte K.*, Graham B.*, **Tsoflias G. P.** and W. L. Watney (2016), Monitoring Induced Seismicity Near the Wellington Oil Field CO₂ Injection in the Mississippian and Arbuckle reservoirs, 2016 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, April 25-27, 2016 (4 pages).
113. Graham B.*, **Tsoflias G. P.** and W. L. Watney (2016), Seismic Modeling of CO₂ Fluid Substitution in the Mississippian Cherty Dolomite and Arbuckle Group Dolomite Reservoirs, Wellington Field, South-Central Kansas, 2016 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, April 25-27, 2016 (4 pages).

114. Watney W. L., Rush J., Holubnyak Y., Fazelalavi M., Hollenback J., Jackson C., Campbell K., Graham B.*, Nolte A.*, Victorine J., Doveton J., **Tsoflias G.**, Roberts J., Whittemore D. and D. Wreath (2016), Update on Performance and Monitoring of CO₂ Injection into the Mississippian Spiculitic (Cherty) Dolomite at Wellington Field, Kansas, 2016 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, April 25-27, 2016 (4 pages).
115. Villaneda-van Vloten I, González L. A., Roberts J. and **G. Tsoflias** (2016), Beachrock Cementation Processes: An Interdisciplinary Approach, 2016 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, April 25-27, 2016 (4 pages).
116. **Tsoflias G. P.**, Vélez J. A.*, Black R. and Van der Veen C. J (2015), Seismic Imaging of Sub-Glacial Sediments at Jakobshavn Isbræ and NEEM Greenland, Abstract C11C-0768, Fall AGU Meeting, San Francisco, Calif., December 14-18, 2015.
117. **Tsoflias G. P.****, Fadolkarem Y. and W. L. Watney (2015), Seismic Characterization of the Mississippian in South-central Kansas, AAPG Workshop on Revitalizing Reservoirs, San Antonio, TX, December 1-2, 2015.
118. **Tsoflias G. P.**** and M. Becker (2015), Field GPR Imaging of Flow and Transport in a Discrete Fracture: Capabilities and Limitations, GSA Abstracts, v. 47, no. 7, GSA Annual Meeting, Baltimore, Maryland, November 1-4, 2015.
119. Fadolkarem Y.*, **Tsoflias G. P. †** and W. L. Watney (2015), Seismic AVO Analysis of the Mississippian Chert and Arbuckle Group at Wellington Field, South-central Kansas, 2015 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, April 12-14, 2015 (4 pages).
120. Fadolkarem Y.*, **Tsoflias G. P. †** and W. L. Watney (2015), Use of Seismic Multiattribute Regression Analysis for Porosity Prediction in the Mississippian Chert and Arbuckle Group at Wellington Field, 2015 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, April 12-14, 2015 (4 pages).
121. Watney L., Montalvo L., Gonzalez L., Rush J., Fadolkarem Y., **Tsoflias G.**, Fazelalavi M., Holubnyak E., Bidgoli T., Gerlach P., Hedke D., Dubois D., Newell D., Victorine J. and J. Raney (2015) A Maturing Mississippian Lime Play in the Midcontinent – A Perspective on What we Know and Need to Know, 2015 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, April 12-14, 2015 (4 pages).
122. Villaneda-van Vloten I.*, Gonzalez L., Roberts J. and **G. Tsoflias** (2015), Revisiting Beachrock Cementation Processes, 2015 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, April 12-14, 2015 (4 pages).
123. Ivanov J., Miller R., **Tsoflias G.**, Morton S. L. and S. Peterie (2015), Density sensitivity of surface wave inversion using Multichannel Analysis of Surface Wave (MASW) Method, 28th Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP), Austin, Texas, March 22-26, 2015.
124. **Tsoflias G. P.**, Perl C, Baker M. and M. Becker (2014), Fracture Flow Channel Imaging Using Cross-Polarized GPR Signals, Abstract H52D-07, Fall AGU Meeting, San Francisco, Calif., December 15-19, 2014.
125. Morton S., Miller R., Vander Velde E. T., Bower M. O. and **G. P. Tsoflias** (2014), Case Study in the Santa Susana Mountains: Observing Discontinuities Using Non-invasive Surface Wave Methods, Abstract NS41B-3837, Fall AGU Meeting, San Francisco, Calif., December 15-19, 2014.
126. **Tsoflias G. P.**** (2014), GPR Polarization Implications for Imaging Flow in Fractures, 3rd Near-Surface Geophysics Workshop, The China University of Geosciences, Wuhan, China, June 18, 2014.
127. Alm S., Walker J. D., **Tsoflias G.**, Taylor M. and A. Sabin (2014), Modeling an Active Hydrothermal System in a Volcanic, Basement Ridge Step-Over: First Steps in a Multi-Discipline

- Approach, Southern Dixie Valley, Nevada, GSA Rocky Mountain / Cordilleran Joint Meeting, Bozeman, Montana, May 19-21, 2014.
128. Becker M. W. and **G. Tsoflias** (2014), Experimental Analysis of Flow Channeling Through a Fracture, Pacific Section AAPG, SPE and SEPM Joint Technical Conference, Bakersfield, Calif., April 27-30, 2014.
 129. Redger C.*, **Tsoflias G. P.** and W. L. Watney (2014), Seismic Attribute Analysis of the Arbuckle Group from 3D-3C Seismic Data at the Cutter Field, Southwest Kansas, 2014 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, April 27-30, 2014 (4 pages).
 130. Fadolkarem Y.*, **Tsoflias G. P.** and W. L. Watney (2014), Pre-stack Seismic Attribute Analysis of the Mississippian Chert and Arbuckle at Wellington Field, South-central Kansas, 2014 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, April 27-30, 2014 (4 pages).
 131. Vélez J. A.*, Li J., Leuschen C., Gogineni P., **Tsoflias G. P.**, Van der Veen C., Reinhard D. and A. R. Harish (2013), Preferred Ice Crystal Orientation Fabric Measurements within the Greenland Ice Sheet Using Multi-Polarization Radar Data, Abstract C21D-0683, Fall AGU Meeting, San Francisco, Calif., December 9-13, 2013.
 132. Vélez J. A.*, **Tsoflias G. P.**, Stearns L. and C. J. Van der Veen (2013), Till Layer Imaging Beneath Jakobshavn Glacier Greenland, SACNAS National Conference, San Antonio, TX, USA, Oct. 3 – Oct. 6, 2013.
 133. Sirazhiev A.*, **Tsoflias G. P.** and L. Watney (2013), Seismic Attribute Analysis of the Mississippian Chert at the Wellington Field in South-Central Kansas, AAPG Mid-Continent Section Meeting, Wichita, Kansas, October 12-15, 2013.
 134. Becker M. W., Remmen K., **Tsoflias G. P.**, Reimus P. W. and A. Hawkins (2013), Investigating Well Connectivity and Reactive Surface Area in a Sandstone Bedrock Using Ionic Tracers, National Ground Water Association Conference on Groundwater in Fractured Rock and Sediments, Burlington, Vermont, September 23-24, 2013.
 135. **Tsoflias G. P.**, Hoch A. M.*, Stearns L. A. and C. J. Van der Veen (2013), Regional Ice Accumulation Patterns and Flow Channels Revealed by Airborne Radar Imaging of Jakobshavn Glacier, Greenland, International Symposium on Radioglaciology: Advances in Radio Frequency, Microwave and Digital Technologies, Lawrence, Kansas, 9-13 September, 2013.
 136. Vélez J. A.*, **Tsoflias G. P.**, Anandakrishnan S. and C. J. Van der Veen (2013), Using Seismic Observations to Detect Deformable Ice Layers at the Base of Jakobshavn Glacier and Comparison to Radar Imaging, International Symposium on Radioglaciology: Advances in Radio Frequency, Microwave and Digital Technologies, Lawrence, Kansas, 9-13 September, 2013.
 137. **Tsoflias G. P.** and M. W. Becker (2013), Fracture Imaging and Monitoring of Channeled Flow in the Field Using Ground Penetrating Radar, South-Central GSA Meeting, Austin TX, April 4-5, 2013.
 138. Watney W., Rush J., Dubois M., Barker R., Birdie T., Cooper K., Datta S., Doveton J., Fazelalavi M., Fowle D., Gerlach P., D., Hansen T., Hedke D., Holubnyak E., Huff B., Jackson C., Newell D., Nicholson L., Roberts J., Scheffer A., Sirazhiev A., Sorenson R., **Tsoflias G.**, Victorine J., Williams G, Wreath D. and J. Youle (2013), Evaluating carbon storage in Morrowan and Mississippian oil fields and Underlying Lower Ordovician Arbuckle Saline Aquifer in southern Kansas, American Association of Petroleum Geologists Annual Convention Transactions, Pittsburgh, PA, May 19-22, 2013.
 139. **Tsoflias G. P.**, Baker M.* and M. Becker (2012), Field GPR Monitoring of Flow Channeling in Fractured Rock, Abstract NS51B-1834, Fall AGU Meeting, San Francisco, Calif., December 3-7, 2012.

140. Hawkins A., Becker M. and **G. P. Tsoflias** (2012), Field Measurement of Fracture/Matrix Heat Exchange using Fiber Optic Distributed Temperature Sensing, Abstract H11A-1152, Fall AGU Meeting, San Francisco, Calif., December 3-7, 2012.
141. **Tsoflias G. P.**, Becker M., Baker* M and C. Perll* (2012), Advancing Field Methods for GPR Monitoring of Flow Channeling in Fractured Rock, SEG-AGU Hydrogeophysics Joint Workshop, Boise, Idaho, 8-11 July, 2012.
142. **Tsoflias G. P.** and M. W. Becker (2012), Verification of Geothermal Tracer Methods in Highly Constrained Field Experiments, DOE Geothermal Technologies Program 2012 Peer Review Meeting, Westminster CO, May 7-10, 2012.
143. **Tsoflias G. P.**, Knoph K.*, Franseen E. and R. Goldstein (2012), Ground-Penetrating Radar Imaging of Depositional and Diagenetic Features in an Upper Miocene Carbonate Reservoir Analog, SE Spain, 2012 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, April 2-6, 2012 (4 pages).
144. Sirazhiev A.*, **Tsoflias G. P.** and W. L. Watney (2012), Relating seismic amplitude and frequency response to porosity variability at the top of the Mississippian Chert, South-Central KS, 2012 Annual Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, April 2-6, 2012 (4 pages).
145. **Tsoflias G.** and M. Becker (2012), GPR Characterization of Discrete Fractures and Monitoring of Channeled Flow: Elucidating the Forward Model, 25th Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP), Tucson, Arizona, March 25-29, 2012.
146. Hawkins A., Becker M. and **G. Tsoflias** (2012), Measurement of Fracture/Matrix Heat Exchange Using Fiber Optic Distributed Temperature Sensing, 25th Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP), Tucson, Arizona, March 25-29, 2012.
147. Watney W. L., Rush J., Doveton J., Fazelalavi M., Newell K. D., Hedke D., Scheffer A., Roberts J., Fowle D., Wreath D., Koudele R., Gerlach P., Nicholson L., Hansen T., Victorine J., **Tsoflias G.**, Sirazhiev A *, Barker R. and S. Datta (2012), Geologic Assessment of the Mississippian System in Southern Kansas Incorporating Log and Core Petrophysics and Seismic Data From Wellington Field, Sumner County, Kansas – Implications for Horizontal Drilling, AAPG Workshop, New Directions in Carbonates, Fort Worth, Texas, February 27-29, 2012.
148. **Tsoflias G. P.**, Baker M.* and M. W. Becker (2011), Assessing GPR Signal Polarization for 3D Imaging of Fracture Flow Channels, Abstract NS41A-07, Fall AGU Meeting, San Francisco, Calif., December 5-9, 2011.
149. Hoch A. M.*, Vélez J. A.*, **Tsoflias G. P.**, Stearns L. A. and C. J. Van der Veen (2011), Improved Characterization of the Jakobshavn Isbræ Catchment Region through Analysis of Radar Depth Sounder Data, Abstract C11C-0684, Fall AGU Meeting, San Francisco, Calif., December 5-9, 2011.
150. Arntsen A. E.*, Godaire T. P.*, **Tsoflias G. P.**, Stearns L. A., Van der Veen C. J. and A. M. Hoch* (2011), Internal Ice layer Mapping and Geophysical Analysis of Jakobshavn Glacier, Greenland, Abstract C11C-0683, Fall AGU Meeting, San Francisco, Calif., December 5-9, 2011.
151. **Tsoflias G. P.**, Becker M. W. and M. Baker* (2011), Monitoring of Flow in Fractured Rock Using Ground Penetrating Radar, National Ground Water Association Focus Conference on Fractured Rock and Eastern Groundwater Regional Issues, Burlington, Vermont, September 26-27, 2011.
152. **Tsoflias G. P.** and M. W. Becker (2011), GPR Imaging of Channeled Flow in Fractured Bedrock, DOE Subsurface Biogeochemical Research 6th Annual PI Meeting, Washington D.C., April 26-28, 2011.
153. Godio A., Franco D., Basiricò S., Crosta G. B., Frattini P., Villa A. and **G. Tsoflias** (2011) Hydrogeophysical Characterization of a Complex Aquifer in Calcareous and Gypsum Formations, Geophysical Research Abstracts Vol. 13, EGU2011-10358-1, 2011, EGU General Assembly 2011.

154. Zeng C.*, Xia J., Miller R. D. and **G. P. Tsoflias** (2011), Application of the Multiaxial Perfectly Matched Layer to Near-Surface Seismic Modeling with Rayleigh waves, 24th Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP), Charleston, South Carolina, April 10-14, 2011.
155. Godio A.** , **Tsoflias G. P.**, Socco V., Piatti C., Rege R. and A. Arato (2011), Seismic Surface Waves and Multioffset GPR for Sandy Soil Characterization, 24th Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP), Charleston, South Carolina, April 10-14, 2011 [invited presentation of the 2010 SEG talk].
156. Knoph K.* , Franseen E., Goldstein R., **Tsoflias G. P.** and Z. Li (2011), GPR Constraints on 3D Stratigraphic Architecture and Porosity in Microbialite-Oolite Sequences, Upper Miocene, SE Spain, American Association of Petroleum Geologists Annual Convention Transactions, Houston, Texas, April 10-13 , 2011.
157. **Tsoflias G. P.** (2011), Ground Penetrating Radar High Resolution 3-D Imaging of Dual Porosity - Permeability Systems: Imaging Carbonate Lithofacies, Flow Units and Flow Conduits, 2011 Annual Review Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, March 29-31, 2011 (4 pages).
158. **Tsoflias G. P.** (2011), Imaging Fluid Flow and Transport in Discrete Fractures using Ground Penetrating Radar, 2011 Annual Review Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, March 29-31, 2011 (4 pages).
159. Knoph K.* , **Tsoflias G. P.**, Franseen E. and R. Goldstein (2011), Integrating Ground-Penetrating Radar and Field Relationships to Evaluate Porosity and Stratigraphic Models in Upper Miocene Microbial-Oolitic Carbonates, SE Spain, 2011 Annual Review Meeting of the Kansas Interdisciplinary Carbonate Consortium, Lawrence, Kansas, March 29-31, 2011 (4 pages).
160. **Tsoflias G. P.**, Schillig P. C.* , McGlashan M. A., Roberts J. A. and J. F. Devlin (2010), Elucidating GPR Response to Biological Activity: Field and Laboratory Experiments, Abstract NS33A-04 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., December 13-17, 2010.
161. Cherukupally A, Freund F. T; Vanderbilt V. C, **Tsoflias G. P.** and R. Dahlgren (2010), Stress-Activated Electromagnetic Emission and Reflection from Gabbro and Gabbro-Diorite, Abstract NH31A-1335 presented at 2010 Fall Meeting, AGU, San Francisco, December 13-17, 2010.
162. **Tsoflias G. P.****, Schillig P. C.* , McGlashan M. A., Roberts J. A. and J. F. Devlin (2010), Field and Laboratory GPR Monitoring of Biological Activity in Saturated Porous Media, Geophysical Research Abstracts Vol. 12, EGU2010-6415-1, 2010, EGU General Assembly 2010 (invited).
163. **Tsoflias G. P.**, Ivanov J., Anandkrishnan S., Horgan H. and L. Peters (2010), Lateral Variability in Firm Properties Revealed by Active Source Seismic Surface Waves, Geophysical Research Abstracts Vol. 12, EGU2010-6445, 2010, EGU General Assembly 2010.
164. **Tsoflias G. P.** and R. Henthorne (2010), Borehole GPR Detection of Subsurface Voids at Kansas Highway 69 Pittsburg Bypass, Symposium on Kansas Geophysics in the 21st Century, Wichita, Kansas USA, October 27-29, 2010.
165. Zahm C. and **G. Tsoflias** (2010), Interwell Calculation of Permeability in Vuggy Pores Using Ground-Penetrating Radar and Cross-Hole Tomography within Albian Carbonates Reservoir Analogs, Pipe Creek, Texas, Gulf Coast Association of Geological Societies Transactions v. 60, p. 853.
166. Miller B.* , **Tsoflias G. P.** and D. Steeples (2010), Advancements in Near-Surface Seismic Reflection Acquisition, PhD Students and Young Scientists Conference, Warsaw, Poland, September 13-16, 2010 (5 pages).
167. Dahlgren R., Williams C., Freund F. T., Vanderbilt V. C., Bleier T. and **G. Tsoflias** (2010), Measurement of Electromagnetic and RADAR Effects During Large-Scale Rock Stress/Fracture Experiments (2010), Workshop on Electromagnetic Signals associated with Earthquakes & Volcanoes, Chapman University, Orange, CA, October 3-6, 2010

168. Vélez J. A.*, **Tsoflias G. P.**, and S. Anandakrishnan (2010), Evaluating Ice Basal Conditions at Jakobshavn Glacier Using Seismic AVO Methods, SACNAS National Conference, Anaheim, California, USA, Sept. 30 – Oct. 3, 2010.
169. Devlin J. F., Schillig P.C.*, Bowen I., Tsoflias G. P., Rudolph D. L., Thomson N. R., and E. Patterson (2010) Advances in Tools for Detailed Aquifer Characterization, Hydrocarbon Summit, University of Waterloo, Waterloo, Ontario, Canada, July 20 2010.
170. Becker M. and **G. P. Tsoflias** (2010), What Does Resident Concentration Mean at the Field Scale?, presented at “Thirty years of stochastic subsurface hydrology: Where do we stand and what are the emerging challenges?” Centro Stefano Franscini Conference, Monte Verità, Ascona, Switzerland, June 27 - July 2, 2010.
171. Becker M. and **G. P. Tsoflias** (2010), Hydrogeophysical Characterization and Monitoring of Fractured Bedrock (2010), Groundwater Resources Association of California Symposium on Geophysics at the Beach, Santa Anna, California, May 25, 2010.
172. **Tsoflias G. P.**** (2010), GPR Imaging of Flow in Discrete Fractures: Implications to Geothermal Resources Development, Symposium on Geothermal Energy for Sustainable Development: The Necessity of a Multidisciplinary Approach, Turin, Italy, February 9, 2010 (invited).
173. Becker M. and **G. P. Tsoflias** (2010), Measuring Channeled Flow in Fractured Bedrock: Application of Harmonic Hydraulic Interference Testing, DOE ERSP 5th Annual PI Meeting, Washington D.C., March 29-31, 2010.
174. Vélez J. A.*, **Tsoflias G. P.** and S. Anandakrishnan (2009), Using Seismic Anisotropy to Detect Mean Ice Crystal Orientation in the Jakobshavn Glacier, Fall AGU Meeting EOS Trans. AGU, 90(52), Fall Meet. Suppl., Abstract C23C-0517.
175. Hoch A.*, Vélez J. A.*, Nardone A.*, Stearns L. and **G. P. Tsoflias** (2009), Three-dimensional Visualization of the Jakobshavn Isbrae Catchment Region, Fall AGU Meeting EOS Trans. AGU, 90(52), Fall Meet. Suppl., Abstract C31C-0458.
176. Williams C., **Tsoflias G.**, Cyr G., Dahlgren R. and F. Freund (2009), Radar Reflectivity Changes of Rock Surfaces due to Heat-Activated Charge Carriers: Contributing to the Understanding of the Magellan Venus Radar Reflectivity Data, EOS Trans. AGU, 90(52), Fall Meet. Suppl., Abstract P33A-1277.
177. Vélez J. A.*, **Tsoflias G. P.**, Anandakrishnan S., Horgan H., Peters L., Voigt D. and P. Winberry (2009), Determining Glacier Ice Crystal Orientation Using Seismic Anisotropy, SACNAS National Conference, Dallas, Texas USA, October 15-18, 2009.
178. Freund F., Williams C., **Tsoflias G.**, Dahlgren R., McMillan M. and J. Keefner (2009), Non-Thermal IR Signature Prior to Earthquakes and When Volcanoes Wake Up, HypSIRI (Hyperspectral Infrared Imager) Workshop, Pasadena CA USA, August 11-13, 2009.
179. Zahm C., **Tsoflias G.**, Peterson K.* and X. Janson (2009), Shallow Water Injection Monitoring in Vuggy Pores Using Ground-Penetrating Radar and Cross-Hole Tomography, Pipe Creek, Texas, American Association of Petroleum Geologists Annual Convention Transactions, Denver, Colorado, June 7-10, 2009.
180. Lipinski C. J., Goldstein R. H., Franseen E. K. and **G. P. Tsoflias** (2009), Oolite-Microbialite-Coral Reef 3-D Reservoir Analog Model of the Miocene Terminal Carbonate Complex, SE Spain, American Association of Petroleum Geologists Annual Convention Transactions, Denver, Colorado, June 7-10, 2009.
181. **Tsoflias G. P.**, Ivanov J., Anandakrishnan S., Horgan H., Peters L., Voigt D. and P. Winberry (2008), Firn and Shallow Ice Profiling at Jakobshavn Glacier Using Dispersed Seismic Surface Waves, EOS Trans. AGU, 89(53), Fall Meet. Suppl., Abstract C11D-0528.
182. Vélez J. A.*, **Tsoflias G. P.**, Anandakrishnan S., Horgan H., Peters L., Voigt D. and P. Winberry (2008), Evidence of Seismic Anisotropy Detected on Jakobshavn Glacier, EOS Trans. AGU, 89(53), Fall Meet. Suppl., Abstract C11D-0540.

183. Peters L., Anandakrishnan S., Horgan H., Winberry P., Voigt D. and **G. Tsoflias**, (2008), Constraint on Basal Conditions in the Onset Region of Jakobshavn Isbrae, Greenland, through Seismic Amplitude Variation with Offset (AVO) Analysis, EOS Trans. AGU, 89(53), Fall Meet. Suppl., Abstract C11A-0474.
184. Becker M. and **G. P. Tsoflias** (2008), GPR-Measured Tracer Breakthrough in a Sandstone Bedding-Plane Fracture, EOS Trans. AGU, 89(53), Fall Meet. Suppl., Abstract NS41A-08.
185. Schillig P. C.*, Devlin J. F., Roberts J. A. and **G. P. Tsoflias** (2008), The Effects of Microbial Activity on the Hydrogeology of a Biostimulated Aquifer, 7th International Symposium for Subsurface Microbiology, Shizuoka, Japan, November 16-21.
186. Schillig P. C.*, **Tsoflias G. P.**, Roberts J. A., Devlin J. F. and E. M. Patterson (2008), Time-lapse GPR Monitoring of Enhanced Biological Activity in a Sandbox Reactor, AGU Chapman Conference on Biogeophysics, Portland, Maine USA, October 13-16.
187. Devlin, J. F., Schillig P.*, **Tsoflias G.**, McGlashan M.* and J. Roberts (2008), A new Tool for Groundwater Velocity Measurement and its Applications. Invited for presentation at the 2008 North American Environmental Field Conference and Exposition: Advances in Environmental Site Characterization Sampling and Monitoring Technology, Tampa, Florida, Jan. 14-16.
188. **Tsoflias G. P.****, Stockli D. F., Christie M. W.* and R. A. Black (2007), Assessing Off-Fault Deformation at an Extensional Tectonic Setting Using 3-D GPR, Geophysical Research Abstracts, Vol. 9, 08915, 2007 SRef-ID: 1607-7962/gra/EGU2007-A-08915 (invited).
189. **Tsoflias G. P.****, Hoch A.*, Gifford C. M.*, Agah A., Ivanov J., Anandakrishnan S., Horgan H., Peters L., Voigt D. and P. Winberry (2007), Advancing Active Source Seismic Methods for Exploration of the Cryosphere, EOS Trans. AGU, 88(52), Fall Meet. Suppl., Abstract NS14A-03 (invited).
190. **Tsoflias G. P.**, Becker M. W. and S. R. Bourque (2007), Relating GPR Signal Response to Fracture Fluid Salinity, EOS Trans. AGU, 88(52), Fall Meet. Suppl., Abstract H44A-05.
191. Schillig P. C.*, Devlin J.F., **Tsoflias G. P.**, Patterson E. M., Roberts J. A. and M. A. McGlashan* (2007), Field and Laboratory Investigations of Enhanced Biological Activity Influencing Groundwater Velocity and Electromagnetic Wave Propagation, EOS Trans. AGU, 88(52), Fall Meet. Suppl., Abstract NS11B-0497.
192. Patterson E. M., Schillig P. C.*, **Tsoflias G. P.**, Devlin J.F. and J.A. Roberts (2007), A Laboratory Tank Experiment to Investigate the Effects of Microbial Growth on Water Flow and GPR Wave Propagation, EOS Trans. AGU, 88(52), Fall Meet. Suppl., Abstract NS11B-0496.
193. Black R. A., Christie M. W.*, **Tsoflias G. P.** and D. F. Stockli (2007), Near-Surface Seismic Reflection and GPR Imaging of the Active Emigrant Peak Fault, Fish Lake Valley, NV, EOS Trans. AGU, 88(52), Fall Meet. Suppl., Abstract NS23A-01.
194. Hoch A.*, Martinez A.* and **G. Tsoflias** (2007), Three-Dimensional Mapping and Visualization of Airborne Polar Radar Data, EOS Trans. AGU 88(23), Jt. Assem. Suppl., Abstract GC23A-07.
195. Devlin J. F., Schillig P. C.*, McGlashan M. A.*, **Tsoflias G. P.** and J. A. Roberts (2007), Investigating Transient Heterogeneity in a Bioactive Plume Using GPR and PVPs, EOS Trans. AGU 88(23), Jt. Assem. Suppl., Abstract NS44A-03.
196. Schillig P. C.*, McGlashan M. A. *, Devlin J. F., **Tsoflias G. P.** and J. A. Roberts (2007), Using Groundwater Point Velocity Probes and Ground Penetrating Radar to Investigate Microbially Mediated Changes in Flow Properties of a Contaminated Aquifer, EOS Trans. AGU 88(23), Jt. Assem. Suppl., Abstract NS51A-02.
197. Devlin J. F., Schillig P. C.*, McGlashan M. A. *, **Tsoflias G. P.** and D. M. Mackay (2007), Transient Heterogeneity Below the Water Table and Effects on Contaminant Plumes, 2007 Ground Water Summit, National Ground Water Association, Albuquerque, New Mexico, April 29-May 3.
198. Schillig P. C.*, Devlin J. F., N. Kinnebrew, McGlashan M. A.* and **G. P. Tsoflias** (2007), Development and Field Application of a Tool to Directly Measure Centimeter-Scale Groundwater

- Velocities with Implications for Transient Heterogeneity in Contaminated Aquifers, 2007 Ground Water Summit, National Ground Water Association, Albuquerque, New Mexico, April 29-May 3.
199. **Tsoflias G. P.**, Devlin J. F., Roberts J., McGlashan M. A.*, Schillig P. C.*, Barker J. F., Naas C., Endres A. and S. Piggott (2006), Hydrogeophysical Monitoring of a Homogeneous Aquifer Response to a Modern Gasoline Fuel Contaminant Plume: Preliminary Observations, Society of Exploration Geophysicists 2006 Hydrogeophysics Workshop, 31 July – 2 August, Vancouver, BC Canada.
 200. Christie M. W.*, **Tsoflias G. P.**, Black R. A. and D. F. Stockli (2006), Ground Penetrating Radar Imaging of the Emigrant Peak Fault Zone and Alluvial Fan, EOS Trans. AGU, 87(52), Fall Meet. Suppl., Abstract NS41A-1123.
 201. Black R. A., Christie M. W.*, **Tsoflias G. P.** and D. F. Stockli (2006), Shallow Seismic Reflection Study of Recently Active Fault Scarps, Mina Deflection, Western Nevada, EOS Trans. AGU, 87(52), Fall Meet. Suppl., Abstract NS41A-1122.
 202. Gifford C.*, Agah A. and **G. P. Tsoflias** (2006), Hybrid Streamers for Polar Seismic, EOS Trans. AGU, 87(52), Fall Meet. Suppl., Abstract C41B-0335.
 203. Jarvis J.* and **G. P. Tsoflias** (2006), GPR Waves at the Interface: An Investigation of Electromagnetic Wave Polarization Attributes for Fracture Characterization, EOS Trans. AGU, 87(36), Jt. Assem. Suppl., Abstract NS31A-05.
 204. Schillig P. C.*, Devlin J. F., McGlashan M. A. and **G. P. Tsoflias** (2006), A Novel Approach for Aquifer Characterization Based on Direct Groundwater Velocity Measurements and GPR, The Geological Society of America Annual Meeting, 22-25 October, GSA Abstracts with Programs Vol. 38, No. 7.
 205. Devlin J. F., Schillig P. C.*, McGlashan M. A. and **G. P. Tsoflias** (2006), Direct Groundwater Velocity Estimates from PVP and GPR Measurements, The Geological Society of America Annual Meeting, 22-25 October, GSA Abstracts with Programs Vol. 38, No. 7.
 206. **Tsoflias G. P.**, Steeples D. W., Czarnecki G.*, Sloan S. D.* and R. Eslick* (2005), 3-D Autojuggie: Automating Deployment of Two-Dimensional Geophone Arrays for Efficient Ultra-Shallow Seismic-Reflection Surveys, EOS Trans. AGU, 86(52), Fall Meet. Suppl., Abstract U21B-0815.
 207. McGlashan M. A.*, **Tsoflias G. P.**, Devlin J. F. and P. C. Schillig* (2005), Characterizing High Resolution Aquifer Heterogeneities Using Borehole Radar and Multi-Level Point Velocity Probes, EOS Trans. AGU, 86(52), Fall Meet. Suppl., Abstract H41F-0478.
 208. McGlashan M. A.*, Devlin J. F. and **G. P. Tsoflias** (2005), High resolution groundwater velocity monitoring using multi-level point velocity probes, 50th Midwest Groundwater Conference, Urbana , Illinois – Nov. 1-3, 2005.
 209. McGlashan M. A.*, P. Schillig*, Devlin J. F. and **G. P. Tsoflias** (2005), Geophysics Meets Hydrogeology While Characterizing the Heterogeneity in the World's Most Homogeneous Aquifer, 14th Annual Kansas Hydrology Meeting, Topeka, Kansas – Nov. 18, 2005.
 210. **Tsoflias G. P.** and A. Hoch* (2004), Towards the Quantitative Characterization of Fractures Using GPR, EOS Trans. AGU, 85(47), Abstract H13G-05.
 211. **Tsoflias, G. P.** (2004), Ground-Penetrating Radar (GPR) Methods in Environmental Geoscience, AEG regional meeting on State of the practice site investigation methods to support design, October 23, 2004, Kansas City, KS.
 212. Vincent P. D.*, **Tsoflias G. P.**, Sloan S. D.* and D. W. Steeples (2004), Processing Ultra-Shallow Reflection Data in Areas with Laterally Varying Velocities, AGU, Fall Meeting, EOS Trans. AGU, 85(47), Abstract H14C-05.
 213. Blair, J. D., Clark J., Steeples D. W., Vincent P. D.*, and **G. P. Tsoflias** (2004), Reducing the cost of shallow seismic data acquisition: A comparative analysis of the seismic response of rigidly interconnected geophones attached to steel media of various shapes, 227th meeting of the American Chemical Society, March 28-April 1, Anaheim, CA, ENVR 74.

214. Healey J, **Tsoflias G. P.**, Steeples D. W., Vincent P.*, Sloan S. D.*, and C. D. McElwee (2003), Geophysical Techniques Applied to a Stream-Aquifer System, Eos Trans. AGU, 84(47), Abstract H31B-0466.
215. Halihan T., Zahm C. K., **Tsoflias G. P.**, Mace R. E and J. M. Sharp, Jr. (1999), Use of Outcrop and GPR Data to Interpret Flow in Karst Aquifers: Recent Results from the University of Texas, 1999 AKMA Conference Transactions.
216. **Tsoflias G. P.**, J. M. Sharp, Jr. and M. A. Muldoon (1998), Ground-Penetrating Radar Investigation of the Byron Dolomite: An Integrated Approach to Aquifer Characterization, 1998 SEPM Research Conference Transactions.
217. Phillips J. D., Carpenter D., Bartelemann M., Murray P., **Tsoflias G.**, McConnell T., Saul S. and G. Kuhlman (1995), High resolution aeromagnetic mapping of oil/ gas field fault zones in Wilson/ Karnes counties, Texas, Eos, Trans. AGU, 76(46), p. 175.
218. **Tsoflias G. P.**, G. A. Bollinger and J. K. Costain (1990), Cyclicities in the Seismicity of the Charlevoix Zone in the St. Lawrence Valley, Seismological Society of America, Eastern Section, 62nd Annual Meeting, Seismological Research Letters, Vol. 61, No. 3, p. 163.

Invited Presentations, Workshops and Short Courses

- 2018 Ground Penetrating Radar Imaging of Fractures and Monitoring of Fluid Flow, Wichita State University, Wichita, KS, March 30, 2018.
- 2018 Ground Penetrating Radar Imaging of Fractures and Monitoring of Fluid Flow, Missouri University of Science and Technology, Rolla, MO, February 12, 2018.
- 2016 GPR Imaging of Flow and Transport in Fractures: Capabilities and Limitations, Louisiana State University Wilbert Lecture, Baton Rouge, LA, November 11, 2016.
- 2016 Geophysical Techniques in Hydrogeology, guest lecture in GEOL 591 Hydrogeology Field Methods, The University Kansas, Lawrence, KS, May 4, 2016.
- 2016 GPR Imaging of Flow and Transport in Fractures, Invited Presentation, 1st Scientific Advisory Board Meeting, Sensors & Software Inc., Mississauga, Canada, April 14-15, 2016.
- 2014 Assessing GPR Polarization for Imaging Fractures and Flow Channeling, Workshop on Near Surface Geophysics, China University of Geosciences, Wuhan, China, June 18, 2014.
- 2013 Three-day short course on GPR Methods, University of Puerto Rico, Mayagüez, May 3 - 5, 2013.
- 2013 Geophysical Imaging of the Subsurface: From Fractures to Ice Sheets, The University of Kansas, Dept. of Mathematics, February 27, 2013.
- 2012 High Resolution Radar Imaging of the Subsurface: From Fractured Aquifers to Ice Sheets, Iowa State University, Ames, Iowa, April 13, 2012.
- 2010 Seismic Interpretation and Attribute Analysis, Politecnico di Torino, Italy, April 22, 28-29, 2010 (Short Course in Exploration Geophysics).
- 2010 Active Source Seismic Methods for Exploration of the Cryosphere, Fondazione Montagna Sicura Val D'Aosta, Italy, February 12, 2010.
- 2009 High-Resolution GPR and Seismic Imaging of the Subsurface: From Fractures and Bacteria to Ice Sheets, Politecnico di Torino, Italy, December 16, 2009.
- 2009 Ground-Penetrating Radar Monitoring of Hydrologic Processes: from Flow in Fractures to Enhanced Biodegradation, University of Lausanne, Switzerland, September 25, 2009.
- 2008 Ground Penetrating Radar Imaging of Dual Porosity Formations: Insights to Fluid Flow Properties, Workshop on Groundwater Treatment Zones, The University of Kansas, August 7-8, 2008.
- 2008 Υψηλής Ευκρίνειας Γεωφυσική Απεικόνιση του Υπεδάφους Χρησιμοποιώντας Γεωραντάρ και Σεισμικές Μεθόδους, (High Resolution Geophysical Imaging of the Subsurface Using Georadar and Seismic Methods), Technical University of Crete, Chania Greece, June 12, 2008.
- 2008 High-Resolution GPR and Seismic Imaging of the Subsurface: From Fractures and Bacteria to Ice Sheets, Oklahoma State University, Stillwater, OK, January 18, 2008.

- 2008 High-Resolution GPR and Seismic Imaging of the Subsurface: From Fractures and Bacteria to Ice Sheets, The University of Kansas, Lawrence, KS, January 17, 2008.
- 2007 Hydrogeophysical Investigation of the Near-Surface Using GPR and Seismic Methods, University of Texas Bureau of Economic Geology, Austin, TX, September 28, 2007.
- 2006 Hydrogeophysical Investigation of the Near-Surface Using GPR and high-resolution Seismic Methods, University of Puerto Rico, Mayagüez, November 8, 2006.
- 2006 Student Response Systems: Best Practices for Using Clickers in the Classroom, The University of Kansas, Center for Teaching Excellence, January 31, 2006.
- 2005 National Association of State Boards of Geology (ASBOG) review session in near-surface geophysics, The University of Kansas, February 21, 2005.
- 2004 National Association of State Boards of Geology (ASBOG) review session in near-surface geophysics, The University of Kansas, February 23, 2004.
- 2004 Utilizing Ground-Penetrating Radar Signal Attribute Analysis to Characterize a Fractured Aquifer, University at Buffalo, The State University of New York, April 16, 2004.
- 2004 Imaging Beyond Reflectors: Ground-Penetrating Radar Methods for High Resolution Investigation of Fractured Formations, Kansas State University, March 16, 2004.
- 2003 National Workshop on Earth Science Issues: Challenges in Subsurface Characterization, Imaging and Monitoring, Idaho National Engineering and Environmental Laboratory (INEEL) Sponsored Workshop, September 24-26, 2003, Salt Lake City, UT.
- 2002 Imaging Beyond Reflectors: Ground-Penetrating Radar Methods for High Resolution Investigation of Fractured Formations, The University of Kansas, March 14, 2002.
- 2002 – 2003 Seismic Data Analysis and Amplitude Interpretation, US Department of the Interior, Minerals Management Service, 3-day Short Courses presented October 2002, November 2002, and January 2003.
- 2000 Seismic Facies Analysis: Application to a Deepwater Field Determination, Minerals Management Service, Geoscience Information Technology Forum, New Orleans, LA, February 2000.
- 2000 An Overview of Time vs. Depth Migrated Seismic Data from the Interpreter's Point of View, Minerals Management Service, Geoscience Information Technology Forum, New Orleans, LA, February 2000.
- 1998 – 1999 Ground Penetrating Radar Theory, Field Methods and Data Interpretation, one day invited lecture in course GEO F382C Groundwater Field Methods, Summer Sessions 1999 and 1998, The University of Texas at Austin.
- 1998 Near-Surface Geophysical Methods in Hydrogeology, guest lecture in GEO 391C Physical Hydrogeology, Fall 1998, The University of Texas at Austin.
- 1997 Hydrogeologic Applications of GPR, brown-bag seminar, Spring 1997, The University of Texas at Austin.

Service

I) Professional Society Appointments and Service

- 2013 – present **Associate Editor** of Geophysics (Society of Exploration Geophysicists journal)
- 2017 – 2018 Member, American Geophysical Union (AGU) Governance Committee
- 2015 – 2016 Guest Editor of Geophysics (SEG) special issue “Advancements in the Measurement of the Cryosphere Using Geophysics”
- 2015 – 2016 Member, American Geophysical Union (AGU) Governance Committee
- 2015 – 2016 Past-President, AGU Near-Surface Geophysics Focus Group (NSFG)
- 2015 – 2016 Chair, Awards Committee, AGU NSFG
- 2015 – 2016 Chair, GSSI Student Research Grant Committee, AGU NSFG
- 2015 – 2016 Outstanding Student Paper Awards (OSPA) Coordinator, AGU NSFG
- 2016 Member, AGU Student Travel Grant Committee

- 2013 – 2014 **President**, AGU Near-Surface Geophysics Focus Group (NSFG)
 2010 – 2014 Council Member, American Geophysical Union (AGU)
 2011 – 2014 Chair, Fellows Nominations Committee, AGU NSFG
 2012 – 2014 Co-Chair, AGU-SEG Collaboration Committee
 2011 – 2014 Secretary, Geophysical Society of Kansas (GSK)
 2014 Member, AGU Scientific Trends Task Force
 2006 – 2013 Associate Editor, Journal of Environmental and Engineering Geophysics (JEEG)
 2013 Member, AGU Bylaws Task Force
 2012 – 2013 Member, Society of Exploration Geoph. (SEG) Student Travel Grant Committee
 2010 – 2012 Vice-Chair, AGU Near-Surface Geophysics Focus Group (NSFG)
 2008, 2010 Member, Fellows Nominations Committee, AGU Joint Focus Group Section
 2010 – 2012 Member, Student Travel Grant Committee, AGU NSFG
 2010 – 2012 Outstanding Student Paper Awards (OSPA) Coordinator, AGU NSFG
 2009 – 2010 Member, Research Committee, Geophysical Society of Kansas
 2008 – 2010 Secretary, AGU Near-Surface Geophysics Focus Group
 2006 – 2010 Editor of monthly electronic newsletter, AGU Near-Surface Geophysics Focus Group
 2005 – 2010 Member, AGU Hydrogeophysics Technical Committee
 2008 – 2009 Member, Inter-section Liaison Committee, Society of Exploration Geophysicists, Near Surface Geophysics Section
 2005 – 2008 Member, Executive Committee, AGU Near-Surface Geophysics Focus Group

Conference Sessions

- 2017 Fall 2017 AGU Meeting, oral session Chairman NS21A: “Induced Seismicity in the USA and Canada: Novel Geophysical Methods and Mitigation”, Co-chair Tandi Bidgoli.
 2017 Fall 2017 AGU Meeting, oral session Chairman NS31C, NS32A: “Advances in Exploration Geophysics”, Co-chair Kennedy O Doro.
 2017 87th SEG Annual Meeting oral session Chairman SS 1 “Near-Surface Geophysical Methods for Archaeologic Research”, Co-chair Blair Schneider
 2017 9th International Workshop on Advanced Ground Penetrating Radar (IWAGPR), Edinburgh, UK, 28-30 June, 2017, Technical program committee member.
 2016 Fall 2016 AGU Meeting, Co-chair, NS13A, NS14A, NS22A, NS23A: “Advances in Exploration Geophysics”, Co-chairs Kennedy O Doro, Kristina Keating, Anja Klotzsche.
 2015 Fall 2015 AGU Meeting, oral NS22A session Co-chair, NS: “The Curse of Dimensionality in the Age of Big Data: Challenges in Near Surface Geophysical Exploration”, Co-chair Fred Day-Lewis.
 2015 International Conference Novel Methods for Subsurface Characterization and Monitoring: From Theory to Practice (NovCare 2015), Lawrence KS, USA, 19-21 May, 2015. Technical program committee member; Session Chair: “Hydrogeological Investigation Techniques”.
 2015 Sigma Gamma Epsilon Centennial Celebration and Biannual Conference, Lawrence KS, USA, 27-29 March, conference planning and organization.
 2015 85th SEG Annual Meeting: External referee of Near-Surface Geophysics expanded abstract submissions.
 2014 Fall 2014 AGU Meeting, poster NS21B session Co-chair, NS: “GPR Advances for Subsurface Imaging”, Co-chairs Sid-Ali Quadfeul, Leila Aliouane, Remke Van Dam.
 2014 Fall 2014 AGU Meeting, oral NS43B and poster NS41B session Co-chair, NS: “Near-Surface Seismic Methods for Geohazard Assessment”, Co-chairs R. Miller, V. Socco.
 2014 20th EAGE Near Surface Geoscience, Athens, Greece, 14-18 September, 2014. Technical program committee member.
 2014 20th EAGE Near Surface Geoscience, Athens, Greece, 14-18 September, 2014, “GPR and Electromagnetics I” session Co-chair with A. Giannopoulos.
 2014 20th EAGE Near Surface Geoscience, Athens, Greece, 14-18 September, 2014, External referee of expanded abstract submissions.

- 2014 6th International Conference on Environmental and Engineering Geophysics (ICEEG), Xi' An, China, June 19-22, Section 1 Urban Geophysics III session Co-chair with A. Green.
- 2014 84th SEG Annual Meeting: External referee of Near-Surface Geophysics expanded abstract submissions.
- 2013 Fall 2013 AGU Meeting, oral NS32A and poster NS21A session Co-chair, NS: "Developments and Practical Applications of the Multichannel Seismic-Data Surface-Wave Analysis Method", Co-chairs R. Miller, J. Ivanov, KGS.
- 2013 Fall 2013 AGU Meeting, oral NS42A session Co-chair, NS: "Ground Penetrating Radar (GPR) Method: Advanced Research and Case Studies II", Co-chair X. Comas
- 2013 83rd SEG Annual Meeting oral session Chairman NS 2 "Surface Waves", Co-chair Koya Suto.
- 2013 83rd SEG Annual Meeting: External referee of Near-Surface Geophysics expanded abstract submissions.
- 2013 SEG-AGU Joint Workshop on Cryosphere Geophysics session "Glaciers and Ice Sheets II", Co-chair (Chair J. Bradford, Boise State Univ.)
- 2013 SEG-AGU Joint Workshop on Cryosphere Geophysics, Panelist on "Challenges in Cryosphere Geophysics-Science and Industry".
- 2012 Fall 2012 AGU Meeting, oral and poster sessions NS06: "Geophysical Imaging of Fractures and Fluid Flow: Advancing from Detection to Measurement" Chair (Co-chair M. Becker, CSULB).
- 2012 Fall 2012 AGU Meeting, oral and poster sessions NS04: "Developments and Practical Applications of the Multichannel Seismic-Data Surface-Wave Analysis Method" Co-chair (R. Miller, J. Ivanov, KGS).
- 2012 SEG-AGU Hydrogeophysics Joint Workshop, Panelist on "Advances in Time-Lapse Monitoring", Boise, Idaho, 11 July, 2012.
- 2012 82nd SEG Annual Meeting: External referee of Near-Surface Geophysics expanded abstract submissions.
- 2011 Fall 2011 AGU Meeting, oral and poster sessions NS03: "Exploiting GPR and Seismic Wavefield Properties for Characterization of the Shallow Subsurface" Chair (Co-chair J. Bradford, Boise State).
- 2011 81st SEG Annual Meeting: External referee of Near-Surface Geophysics expanded abstract submissions.
- 2010 Technical Program Coordinator, Symposium on Kansas Geophysics in the 21st Century, Wichita, Kansas USA, October 27-29, 2010
- 2010 Symposium on Kansas Geophysics in the 21st Century, Wichita, Kansas USA, October 27-29, 2010, Organizer and Co-Chair of session "High Resolution Applications".
- 2010 80th SEG Annual Meeting: External referee of Near-Surface Geophysics expanded abstract submissions.
- 2009 79th SEG Annual Meeting: External referee of Near-Surface Geophysics expanded abstract submissions.
- 2008 Fall 2008 AGU Meeting, oral session NS41A: "Geophysical Characterization of Flow in Dual Porosity Media: From Fractures to Karst and Glaciers I" Organizer and chair, Co-chair M. Becker (California State University Long Beach).
- 2008 Fall 2008 AGU Meeting, poster session NS43A: "Geophysical Characterization of Flow in Dual Porosity Media: From Fractures to Karst and Glaciers II" Organizer and chair, Co-chair M. Becker (California State University Long Beach).
- 2008 78th SEG Annual Meeting, oral session NSE-3: "Near Surface Seismic", session chair and referee of session expanded abstracts. Co-chair Steve Danbom.
- 2007 77th SEG Annual Meeting: External referee of Near-Surface Geophysics expanded abstract submissions.
- 2006 11th International Conference on Ground Penetrating Radar, June 19-22, 2006, "Hydrogeophysics", session chair and co-editor of session papers. Co-chair Sébastien Lambot (Université Catholique de Louvain, Belgium).

- 2006 76th SEG Annual Meeting: “NSE P2: Near Surface Seismic: VSP and Shear Waves”, poster session chair and referee of session expanded abstracts.
- 2005 Fall 2005 AGU Meeting: “H41B: Hydrogeophysical Characterization of Fractures: Laboratory and Field Scale Investigations,” session organizer and chair. Co-chairs M. Becker (Univ., at Buffalo, NY), T. Pačes (Czech Geological Survey).
- 2003 73rd SEG Annual Meeting: “Near-Surface Geophysics, GPR Applications”, external referee of session expanded abstracts.

Manuscript Reviews for Journals:

Geophysics	Journal of Environmental and Engineering Geophysics (JEEG)
Geophysical Prospecting (EAGE)	Environmental and Engineering Geoscience (EEG)
Near Surface Geophysics (EAGE)	Journal of Geophysical Research (JGR) Planets
Journal of Applied Geophysics (JAG)	Journal of Geophysical Research (JGR) Solid Earth
Nuclear Technology	Reviews of Geophysics (AGU)
Jour. of Geop. and Eng.	Geophysical Research Letters (GRL)
International Journal of Geophysics	Water Resources Research (WRR)
Geology	GSA Special Paper on Stratigraphic Analysis Using GPR

Proposal Reviews for:

NSF Geophysics	NSF Instrumentation and Facilities
NSF Hydrologic Sciences	NSF Major Research Instrumentation Program
NSF Ecosystem Studies Program	Department of Energy (SBIR-STTR)
NSF Geobiology	

International Service:

- 2017 External Evaluator, Promotion & Tenure, Department of Geology, Aristotle University of Thessaloniki, Greece
- 2016 Alternate External Evaluator, Promotion & Tenure, Technological Educational Institute of Crete, School of Applied Sciences, Department of Environmental and Natural Resources Engineering, Greece
- 2015 External Evaluator, Promotion & Tenure, Department of Geology, National and Kapodistrian University of Athens, Greece
- 2014 External Evaluator, Promotion & Tenure, National Technical University of Athens, School of Mining and Metallurgical Engineering, Greece
- 2014 External Evaluator, Promotion & Tenure, Technological Educational Institute of Crete, School of Applied Sciences, Department of Environmental and Natural Resources Engineering, Greece
- 2014 Alternate External Evaluator, Promotion & Tenure, Aristotle University of Thessaloniki, Department of Geology, Greece
- 2013 External Evaluator, Promotion & Tenure, National Technical University of Athens, School of Mining and Metallurgical Engineering Greece
- 2012 Committee Member, External Review Dept. of Geology and Geoenvironment, National and Kapodistrian University of Athens, Greece, May 14-18, 2012
- 2011, 2012 Proposal reviewer for the Greek National Scholarship Foundation (I.K.Y.)
- 2008, 2009, 2013 Proposal reviewer for the Swiss National Science Foundation

Academic Service:

- External Evaluator, Assistant Professor tenure dossier, Brown University, 2014.
- External Evaluator, Assistant Professor tenure dossier, Oklahoma State University, 2015.
- 2015 – present: Scientific Advisory Group Member, Sensors & Software Inc., www.sensoft.ca

II) University & College Service

- 2016 – 2018 Faculty Mentor, Emerging Scholars Program, KU Center for Undergraduate Research
 2016 – 2017 CLAS Faculty Mentor (Spring 16; Fall 16; Spring 17)
 2016 CLAS Approved Language Proficiency Tester – Modern Greek
 2016 Member, Search Committee: Math, Econ, Earth Sci. IT Coordinator
 2012 – 2014 CLAS Committee on Sabbatical Leaves (Member 2012-13; Chair 2014)
 2013 – 2014 C21 Course Redesign Consortium member
 2010 – 2014 University of Kansas Study Abroad Advisor for Geology Courses
 2007 – 2008 Member, Search Committee, Energy Research Section Chief, Kansas Geological Survey
 2007 – 2008 Member, Search Committee, Petroleum Geoscientist/Petroleum Engineer, Kansas Geological Survey
 2007 Member, Search Committee, Research Assistant Professor EECS, Center for Remote Sensing of Ice Sheets
 2005 – 2006 Member, Search Committee, Groundwater Modeler, Kansas Geological Survey
 2005 – 2006 Member, Search Committee, Glaciologist, Center for Remote Sensing of Ice Sheets, Department of Geography
 2005 Referee, University of Kansas ROTC Scholarship Applications
 2005 Service report to the KU Office of Design and Construction Management, “Seismic Monitoring of Wescoe Food Court”
 2004 Summer Fulbright Program Faculty Mentor (Geophysics)

III) Department Service

- 2015 Coordinator, Department of Geology Colloquium Series
 2018 – present Member, Graduate Studies Committee
 2016 – 2017 Member, Earth Energy & Environment (EEEC) EduLobby committee
 2013 – 2014 Chair, Search Committee, Geophysics Electrical / EM Methods
 2013 Member, Search Committee, Postdoctoral Teaching Fellow, Geology
 2010 – 2014 Director of Undergraduate Studies
 2012 – 2014 Chair, Committee of Undergraduate Curriculum Review
 2011 – 2014 Department of Geology Executive Committee member
 2010 Undergraduate Recruiting committee member
 2004 – present Faculty Advisor, University of Kansas Geophysical Society (Society of Exploration Geophysicists Student Section)
 2006 – 2017 Faculty Advisor, University of Kansas SGE (National Honor Society of Earth Sciences)
 2006 – 2017 Faculty Advisor, Geology Club GSO
 2010 – 2012 Member, Search Committee, Richie Chair in Sedimentary Geology
 2009 – 2011 Member, Self Study Committee for Departmental 5-year External Review
 2008 – 2009 Coordinator, Department of Geology Colloquium Series
 2007 – 2008 Member, Search Committee, Glaciologist, Center for Remote Sensing of Ice Sheets
 2005 – 2006 Member, Search Committee, Distinguished Professor in Invertebrate Paleontology
 2004 – 2009 Member, Graduate Admissions Committee
 2004 – 2009 Member, Graduate Studies Committee
 2003 – present Member, Associates Board University/Industry Liaison Subcommittee
 2003 – present Undergraduate Student Advising
 2003 Member, Young Faculty “Futures Committee”

IV) Community Service and Outreach

- 2018 Interview with KMUW Wichita NPR radio station on “Induced seismicity in Kansas” <http://kmuw.org/post/ku-research-could-help-predict-man-made-earthquakes>
Media release by Physics.org on “Induced seismicity in Kansas” <https://phys.org/news/2017-12-geologists-discoveries-kansas-oklahoma-earthquakes.html>
- 2011 Interviewed with local TV stations Channel 6 and Fox 4 regarding the 5.8 Magnitude Virginia Earthquake of August 23, 2011.
- 2007 Hosted CREsis exhibit at the National Science Teachers Association (NSTA) Western Area Conference and presented research relating to global warming, Denver, CO, November 7 – 9.
- 2007 Interviews with public media regarding my research on global warming and work in Greenland.
i) The Washington Post (June 9): “In arctic ice, lessons on effects of warming: Researchers drill, map, blast in Greenland in hunt for clues” <http://www.washingtonpost.com/wp-dyn/content/article/2007/06/08/AR2007060802782.html?referrer=emailarticle>
ii) Greek newspaper Τα Νέα (June 15): “Greek scientist studies fast moving glacier” <http://assets.in.gr/AssetService/Image.ashx?t=2&pg=72965&>
iii) Lawrence Journal World (September 2): “KU provides key research on global warming” http://www2.ljworld.com/news/2007/sep/02/ku_provides_key_research_global_warming/
- 2007 Gave eight presentations about polar research to approximately 80 “Project Discovery” high school female students from the mid-west, June 13 and July 11, 2007.
- 2006 GPR geo-archaeological investigation of 1800’s cemetery near Dyer, Nevada. Assisted community with identification of burial locations, while conducting geophysical research in Fish Lake Valley, Nevada, August 5, 2006.
- 2005 GPR geo-archaeological investigation for local archaeological society “Underground Railroad Association of Douglas County Kansas”, March 17 and May 27 2005.
- 2004 Participated in The University of Kansas “Wheat State Tour”, May 21-28, 2004

Student Supervision*External Examiner / Reviewer / Supervision (3):*

Esther Babcock, Ph.D. (2014), External Examiner, Boise State University
Boise State University (2013), Geosciences Fellowship Application reviewer
Lisa Dwyer, MS (2006), External Examiner, University of New Orleans

Visiting Scholar (4):

Heng Zhu, Ph.D. (2013-2015), College of Geoporation Science and Technology Jilin University, China
Guangzhou Shao (2014-2015), Assistant Professor, Chang’an University, Xi’an, China
Yue Hu, Ph.D. (2016), Institute of Geophysics and Geomatics, China University of Geosciences, Wuhan, China
Gang Li, Ph.D. (2016-2017), Southwest Petroleum University, Chengdu, Sichuan, China

Graduate Committee Chairman or Co-Chair (underrepresented group)*Doctoral (5):

Keith Alex Nolte, Ph.D. (2017 – 2021*) Determining the efficacy of seismic anisotropy as a predictor for induced seismicity
Jose Vélez*, Ph.D., (2011 – 2015) Use of Radar and Seismic Methods for the Determination of Ice Column Properties and Basal Conditions at the Jakobshavn Isbræ and NEEM Sites. *Currently at Chevron Energy Technology Company*

Brian Miller, Ph.D., (2006 – 2013), Automated Acquisition of 3D 3C Ultra Shallow Seismic. *Currently Assistant Professor at Slippery Rock University of Pennsylvania*

Zeng Chong Ph.D., (2008 – 2011), Chair, co-chair Dr. Jianghai Xia. Dissertation: Wavefield Analysis of Rayleigh Waves for Near-Surface Shear-Wave Velocity. *Currently at TGS-NOPEC Geoph. Co.*

Ramzy Al-Zayer, Ph.D. (2005 – 2010), Co-chair with Dr. Ross Black. Dissertation: Near-Surface Seismic Velocity Model Improvement Using Shallow Seismic. *Currently at Saudi Aramco*

Masters (18):

Lauren Haga, MS (2016 – 2018) Seismic Attribute Analysis and CO2 Monitoring Within the Mississippian Reservoir, Wellington Field, Sumner County, Kansas

Brandon Graham, MS (2014 – 2018), Seismic Determination of Anisotropy of the Mississippian Chert and Arbuckle Reservoirs, Wellington Field, South-central Kansas

Keith Alex Nolte, MS (2015 – 2017), Monitoring Induced Seismicity in the Wellington Oil Field, South-Central Kansas

Yousef Fadolkarem, MS (2012 – 2015), Pre-stack Seismic Attribute Analysis of the Mississippian Chert and the Arbuckle Group at the Wellington Field, South-Central Kansas. *Currently at Saudi Aramco*

Clyde Redger, MS (2012 – 2015), Seismic Attribute Analysis of the Upper Morrow Sandstone and the Arbuckle Group from 3D-3C Seismic Data at Cutter Field, Southwest Kansas. *Chesapeake Energy*

Matt Baker, MS (2010 – 2014), Ground-penetrating radar imaging of fluid flow through a discrete fracture. *Marathon Oil*

Chris Perll, MS (2011 – 2013), Evaluating GPR polarization effects for imaging fracture channeling and estimating fracture properties. *Chesapeake Energy*

Jose Vélez*, MS (2008 – 2012). Development of a Seismic Snow Streamer and Use of Multi-Offset Reflection for Determining Ice Sheet Properties. *completed PhD at The University of Kansas*

Ayrat Sirazhiev, MS (2010 – 2012), Seismic Attribute Analysis of the Mississippian Chert at the Wellington Field, South-Central Kansas. *Schlumberger*

Blair Benson, MS (2009 – 2012), Co-chair with Dr. Rolfe Mandel, Geophysical Investigations of the Mound City Borrow Pits, Ross County, Ohio. *Currently PhD candidate at KU*

Katharine Knoph, MS (2009 – 2011), Co-chair with Dr. R. Goldstein and Dr. E. Franseen. Thesis: Ground-Penetrating Radar Imaging of Depositional and Diagenetic Features in an Upper Miocene Carbonate Reservoir Analog, SE Spain. *At BP*

Kwan-Yee Cheng (2008 – 2011), Co-chair with Dr. Carl Leuschen, EECS. Thesis: Investigation of Radar Subsurface Sounding through Seasonal Cycles Collected by Mars Shallow Radar (SHARAD) in the South Polar Area. *Samson Oil*

Robert Eslick, MS (2005 – 2007). Thesis: Study of Love Waves for Near-Surface Seismic Investigations. *Chevron*

Michael Christie, MS (2005 – 2007). Thesis: Determining Fault Offsets and Slip Rates at the Emigrant Peak Fault in Nevada Using High-Resolution Reflection Seismology and Ground Penetrating Radar. *ConocoPhillips*

Mike McGlashan, MS (2004 – 2007). Thesis: Monitoring Biofilm Growth and Groundwater Flow Changes Using Borehole GPR and Flow Velocity Probes. *ExxonMobil*

Gerard Czarnecki, MS, (2004 – 2006). Thesis: Automating 3D Ultra-Shallow Seismic Reflection Data Acquisition Using a 2D Geophone Array. *Chevron*

Jon Jarvis, MS, (2004 – 2006). Thesis: An Investigation of Electromagnetic Wave Polarization For Vertical Fracture Characterization Using Ground-Penetrating Radar. *CGG Veritas*

Anthony Hoch, MS, (2003 – 2006). Thesis: Investigation of Variable Polarization Ground Penetrating Radar Wave Propagation Through Thin Layers. *Following Geology MS completed EECS MS*

Undergraduate Research Mentees (23) (underrepresented group 6)*

- Hannah Proffitt, KU Geology (2018 – present). Project: Earthquake Monitoring in South Central Kansas
- Carl Gonzales, KU Geology (2018 – present). Project: Earthquake Monitoring in South Central Kansas
- Zalma Molina*, KU Geology, *KU Center for Undergraduate Research Emerging Scholars Program* (2016 – 2018). Project: Earthquake Monitoring in South Central Kansas
- Betina Sodr  de Oliveira Rodrigues, Federal University of Bahia, Brazil Scientific Mobility Program (summer 2016). Project: Seismicity Monitoring at Wellington Field, Kansas
- Lauren Haga, KU Geology (2015-16 academic year). Project: Microseismic Monitoring at Wellington Field, Kansas
- Keith Alex Nolte, KU Geology (Summer 2014). Project: Pilot Seismic Study at the Santa Susana Field Laboratory
- Angel R Adames Corraliza*, University of Puerto Rico, Mayag ez (Summer 2012). Project: Assessing Repeatability of GPR Time-Lapse Imaging
- David J Rodriguez Castro*, University of Puerto Rico, Mayag ez (Summer 2012). Project: Assessing Repeatability of GPR Time-Lapse Imaging
- Alexandra Arntsen, University of Vermont, Burlington Vermont (REU Summer 2011). Project: Internal Ice layer Mapping and Geophysical Analysis of Jakobshavn Glacier, Greenland
- Timothy Godaire, Unity College, Maine (REU Summer 2011). Project: Internal Ice layer Mapping and Geophysical Analysis of Jakobshavn Glacier, Greenland
- Annaria Nardone, Washington and Lee University, Virginia (REU Summer 2009). Project: Use of Geophysical Software to Interpret the 2008 Jakobshavn Radar Grid.
- Jose V lez*, University of Puerto Rico, Mayag ez (REU Summer 2007). Project: Evaluation of seismic reflection data acquired with a streamer on Jakobshavn Glacier, Greenland.
- Edil A. Sepulveda Carlo*, University of Puerto Rico, Mayag ez (REU Summer 2007). Project: Evaluation of seismic reflection data acquired with a streamer on Jakobshavn Glacier, Greenland.
- Karina Kervin, KU EECS (2007). Project: Evaluation of Surface and Borehole Ground-Penetrating Radar in Transportation Projects.
- Alex O. Martinez*, University of Puerto Rico, Mayag ez (REU Summer 2006). Project: Use of Geophysical Software for Interpretation of Ice Penetrating Radar Data and Mapping of Polar Ice Sheets.
- Jasmin Talbert (2003 – 2005). Project: Implementation of Numerical Models for Simulation of GPR Wave Propagation in Fractured Formations.
- Kwan Yee Cheng, KU Geology (2006 – 2007). Project: Evaluation of Surface and Borehole Ground-Penetrating Radar in Transportation Projects.
- Javier de Palacios, KU Geology (2006). Project: Evaluation of Surface and Borehole Ground-Penetrating Radar in Transportation Projects.
- Ryan Brumbaugh, KU Geology, (Summer 2006). Project: Imaging the Deformational History of Alluvial Fans Cut by Active Faults Using Shallow Seismic Reflection and GPR Techniques.
- Kwan Yee Cheng (Summer 2005). Project: Geotechnical Soil and Concrete Material Testing.
- Carlo Ossola, Politecnico di Milano (Spring 2005). Project: Investigation of the Polarization Properties of GPR Signals for the Detection of Buried Pipes.
- Stefano Iuliano, Politecnico di Milano (Spring 2005). Project: Investigation of the Polarization Properties of GPR Signals for the Detection of Buried Pipes.
- Robert Eslick (2004 – 2005): Field Test of a High Frequency Seismic Source Near Lawrence Kansas.

Undergraduate Honors Thesis Committee (1)

Kate A. Ruoff. (2014)

CLAS Faculty Mentor Program (3 students)

Alan Azeltine (Spring 2016)
Mahmood Bokhari (Fall 2016, Spring 2017)
Luke Conchola (Spring 2017)

Graduate Committee Member – Current Students (24)

Jason Rush, Ph.D.
Jen Glaubius, Ph.D., KU Geography
Sherifa Cudjoe, Ph.D., KU Chemical and Petroleum Engineering
Soroush Rezvanbehbahani, Ph.D.
Sarah Child, Ph.D.
Elson Emanuel Core Suarez, Ph.D.
Cesar Augusto Cuapio-Perez, Ph.D.
Fan Zhang, Ph.D.

Kevin Walter, MS
Brian Gibson, MS
Carolyn Helm, MS
Joshua Hogue, MS
Duarte Adrienne, MS
Andrew Philbin, MS
Tyrell Tenpenny, MS
Fan Zhang, MS
James Colgin, MS
Flotron Alyssa, MS
Robertson Clay, MS
Jeff Jennings, MS
Andrew Hollenbach, MS
Matthew Kramer, MS
Ian Thompson, MS
Viehweg Cordell, MS Civil Engineering

Graduate Committee Member – Graduates (36 - date of completion)

Steve Sloan, Ph.D. (2008)
Bei Huang, Ph.D. (2011)
Peter Schillig, Ph.D. (2012)
Zhaoqi Li, Ph.D. (2013)
Rubina Firdous, Ph.D. (2013)
Christian Hager, Ph.D. (2014)
Blair Schneider, Ph.D. (2017)
Konstantinos Petrakopoulos, Ph.D. (2017)

Steve Sloan, MS (2005)
David Bradley, MS (2005)
Theresa Rademacker, MS (2006)
Ben Roche, MS (2006)
Chris Gifford, MS (2006), KU EECS
Peter Schillig, MS (2007)
Shelby Walters, MS (2008)

Brian Wachter, MS (2008)
Cathy Baker, MS (2008)
Rachel Dvoretzky, MS (2009)
Lindsay Walters, MS (2009)
Arlo McKee, MS (2009), KU Anthropology
Ben Ramaker, MS (2009)
Christopher Lipinski, MS (2009)
Evan Bargnesi, MS (2011)
Andrew Sparks, MS (2011)
Craig Hendrix, MS (2012)
Justin Fairchild, MS (2012)
Tyler Schwenk, MS (2013)
James Lyons, MS (2013)
Natalie Burris, MS (2014)
Yao Wang, MS (2015)
Steve Alm, MS (2016)
Abdul Wahab, MS (2016)
Rafferty Sweeney, MS (2016)
Brooks Bailey, MS (2016)
Isabel Villaneda-Vanvloten, MS (2017)
Daniel Feigenbaum, MS (2017)