VITA

Thomas J. Owens
Professor & Chair
Department of Earth & Ocean Sciences
University of South Carolina
Columbia, SC 29208

EDUCATION:

B.S., Geophysics, Purdue University, 1977
M.S., Geophysics, University of Utah, 1980
Ph.D, Geophysics, University of Utah, 1984
Dissertation Title: *Determination of crustal and upper mantle structure from analysis of broadband teleseismic P-waveforms*. Advisor: George Zandt

PROFESSIONAL EXPERIENCE:

1/12-	Director, GEGEO Program
7/11-	Chairman, Dept of Earth & Ocean Sciences, University of South Carolina
1/09-	Director, South Carolina Seismic Network
10/04-06/08	Chairman, Dept of Geological Sciences, University of South Carolina
1/02-6/07	Vice-Chairman, Board of Directors, The IRIS Consortium
09/02-08/03	Visiting Scientist, Department of Geosciences, University of Arizona
07/00-06/01	Interim Undergraduate Director, Geological Sciences, University of South Carolina
07/99-06/01	Associate Chair, Geological Sciences, University of South Carolina
07/97-	Professor, Geological Sciences, University of South Carolina
10/95-12/04	Affiliate Faculty, Geophysics Program, University of Washington, Seattle, WA
06/95-10/95	Visiting Scientist, Geophysics Program, University of Washington, Seattle, WA
07/94-06/97	Associate Professor, Dept. of Geological Sciences, University of South Carolina
09/89-06/94	Assistant Professor, Geological Sciences, University of South Carolina, Columbia, SC
01/85-08/89	Assistant Professor, Dept. of Geology, University of Missouri-Columbia
06/85-08/85	Visiting Scholar, Geophysics Program, University of Washington, Seattle, WA
07/84-12/84	Seismologist, Lawrence Livermore National Laboratory (also for Summer '82 & '83)
09/78-06/84	Graduate Student, Department of Geology and Geophysics, University of Utah
05/78-08/78	Geophysicist, Continental Oil Co., Houston, TX

PROFESSIONAL AFFILIATIONS AND AWARDS:

American Geophysical Union
Seismological Society of America
Phi Beta Kappa Honor Society
SEG Scholarship, University of Utah (1981-84)
Research Fellow, University of Utah Research Foundation (1979-80, 81-82)
Shell Oil Co., Geophysics Fellow, University of Utah (1978-79)

PUBLICATION HISTORY:

Owens has authored or co-authored 61 published papers in peer-reviewed journals and 19 technical reports. His 10 most cited papers have been cited over 1200 times with a current H-index of 23.

FUNDING HISTORY:

Owens has 3 active federally-funded grants and 2 privately-funded contracts. He has been the Principal Investigator or Co-Principal Investigator on 32 federally-funded grants, 1 state-funded grant and 4 privately-funded awards since 1985. Total awarded funding exceeds $7.7 million.

SERVICE AND OTHER PROFESSIONAL ACTIVITIES:

National and International Service

The IRIS Consortium. IRIS, The Incorporated Research Institutions for Seismology, is primarily an NSF-funded facility that develops and operates permanent and portable seismological instrument pools for the US seismological community. In fact, it is a focal point for development of community consensus regarding a wide variety of issues related to the health and growth of seismological research community. Throughout my career, I have participated in a variety of capacities within the IRIS governance structure. This includes:

> **Vice-Chair, IRIS Board of Directors**. 2002-2004, 2005-2007. This is an elected position by vote of the 100+ university membership of IRIS. The Vice-Chair of IRIS serves on the Board of Directors. In addition, the Vice-Chair is the chair of the Coordination Committee, which oversees, reviews and reconciles the ~$30M/yr IRIS budget and deals with other pan-IRIS issues. In addition, the Vice-Chair is a member of the Legal Affairs committee and participates in many ad-hoc committees, such as search committees for professional staff.
>
> **Member, PASSCAL Standing Committee**. 1989-1991, 1999-2002.
> **Member, DMS Standing Committee**. 1995-1997.
> **Member, Executive Committee**. 1992-1993.
>
> **IRIS-2000 Instrumentation Committee**. 1997-2002. Member of a Steering Committee for a 3-year effort to design and develop the next generation of IRIS instrumentation. Responsibilities involved organizing a workshop in 1997 and soliciting community and industrial input into the proper direction of IRIS instrumentation efforts.
>
> **IRIS/PASSCAL Instrument Center Review Panel**. 1997 and 1994. Panel reviewed proposals and visited potential (in 1997) and existing (in 1994 and 1997) sites for the PASSCAL Instrument Center(s) and made recommendations to the PASSCAL Standing Committee.

Editor, Electronic Seismologist Column, Seismological Research Letters, Spring 2002 to present. Position involves soliciting, editing, and writing on issues related to the use of technology in seismological research.

Member, Executive Committee of the Board of Department Chairs and Directors, American Geophysical Union, 12/2004 to 12/2007. I was elected to this position in my first semester as Department Chair. The Board undertakes activities to improve communications and sharing of statistics between academic departments represented by AGU and to promote issues related to AGU disciplines at the national level.

Invited Keynote Address, **US Educational Seismology Workshop,** Sept. 14-16, 2003, Baltimore, Maryland. Workshop helped formulate a program plan for this national initiative.

Invited Speaker, **EarthScope E&O Workshop**. Jan. 30-Feb 1, 2002, Boulder, Colorado. Workshop helped formulate a proactive Education and Outreach plan for the EarthScope initiative. My talk summarized our experiences in the SCEPP program and made recommendations for EarthScope strategies.

Invited Participant, **Ocean Mantle Dynamics Workshop,** Sept. 17-21, 2002, Snowbird, UT. Workshop developed a science plan for studying a broad range of ocean dynamics problems and established the justification for acquisition of large numbers of Ocean-bottom seismometers for community use.

Invited Participant, **Fiordland Geodynamics Workshop**. Jan. 14-19, 2002, Dunedin, New Zealand. Workshop brought an international group of geoscientists together to review work in the Fiordland-Puysegur Trench region and formulate a science plan to guide future collaborative projects.

Invited Participant, **EarthScope Information Technology Workshop,** March, 2002, Snowbird, UT. Workshop established the needs and justification for IT infrastructure for the EarthScope program.

Review Panel, Canadian Foundation for Innovation. May 2000. Four person panel reviewed the POLARIS proposal and interviewed its Science Team on behalf of the foundation.

US Educational Seismology Network. 2000-present. Founding member and workshop coordination team member of the USESN, an organization formed to advocate the use of seimographs and seismological data in the K-12 classroom. This group sponsored workshops in November, 2000 and September, 2003.

Proposal Review Panel, Institute of Geophysics and Planetary Physics, Lawrence Livermore National Laboratory, 1996. Panel reviewed over 50 proposals in solid earth geophysics, space physics and astrophysics.

Associate Editor, Journal of Geophysical Research-B (Solid Earth), 12/93-12/96. Handled about 1-2 papers per month through the review and revision process.

Invited Participant, **USArray Workshop**, sponsored by NSF and IRIS in Albuquerque, NM, Spring 1999. USArray is a major (~$58M) NSF geoscience initiative to study the deep structure of the North American continent. This workshop established the seismological justification for this initiative.

Invited Participant, **Scientific Workshop on Future Directions in Seismological Research**, sponsored by the Cecil H. and Ida M. Green Foundation for the Earth Sciences, and the Scripps Insitution of Oceanography. Cabo San Lucas, Baja California, March 26-29, 1995. Workshop attendance limited to 35 participants.

Invited Participant, **INDEPTH Workshop on Research in the Tibetan Plateau**, sponsored by Cornell University, Syracuse University and NSF, Syracuse, NY, Sept. 21-22, 1995. Workshop attended by 30 invited participants.

Invited Participant, 8 person National Science Foundation delegation to the People's Republic of China - United States **Bilateral Symposium on the Xianshuihe Fault Zone and Field Geological Excursion**. Chengdu, China and the eastern Tibetan Plateau, Sept. 22-30, 1990. US participants were limited to a 8-person NSF delegation and a 4-person U.S. Geological Survey delegation.

Invited Participant, **NSF/USGS/DOE Workshop on Future Research Directions in Continental Dynamics**. Chandler, AZ, 3/4-7, 1989.

Invited Participant, **USGS Workshop on Earthquake Hazards in the Puget Sound Region**. Seattle, WA, 10/29-30, 1985.

Departmental and University Service

Chair, Department of Geological Sciences (now Earth & Ocean Sciences). I became Department Chair in October of 2004 with an affirmative vote by over 80% of the faculty. I served in this capacity through June, 2008. In July 2011, I was asked to be Chair again, this time for a 5-year term. My main accomplishments in my first term were developing funding for two major initiatives, one in Coastal Ocean Sciences and one in Isotope Geochemistry. Each of these added two faculty members to our department. The Isotope Geochemistry initiative also received nearly $2.5M in funding from University and NSF sources to build a clean lab and purchases state-of-the-art mass spectrometers. The total return on the departmental investment was approximately 3.5:1, not counting the value of being able to retain several current faculty members. I also started the development of a private fundraising campaign through revitalization of our relationships with alumni and industrial partners. I led the completion of another self-study and external review in 2008 that resulted in a new strategic plan, a new department name, and changes to the undergraduate curriculum that appear to have played a role in a significant increase in our undergraduate majors. Other accomplishments include: 1) Securing Dean's Office funding to address serious salary inversion problems at the Assistant/Associate Professor levels in 2005, 2006, 2007, and 2012. I also secured retention packages for 6 faculty members, 4 of which chose to stay at USC. 2) Stabilization of our service course offerings and elimination of the practice of counting student credit hours at the individual faculty level. 3) Initiation of regular communication with Alumni through numerous trips to Houston and receptions at AAPG.

Departmental Committees. Prior to becoming Department Chair, I continuously served on the Department of Geological Sciences Undergraduate Committee for 15 years and served as interim Undergraduate Director for one year. I have contributed nearly continuous service on the departmental Computer Committee, including serving as chair for a number of years. I have served on and chaired the Tenure and Promotion Committee and the Budget Committee and have been a member of the Chair's Advisory Committee. I have also been elected to and chaired the Peer Review Committee several times. More recently, I have been elected by the faculty to the Budget Committee to develop a departmental plan for the 5% CAS-mandated cuts and to serve as a departmental representative to the School of the Earth, Ocean, and Environment (SEOE) Advisory Committee. The SEOE Advisory Committee elected me to serve as Chair of that committee.

Associate Chair, Department of Geological Sciences. 1999-2001. My primary activity in this position was to gather data for and write the departmental Self-Study as part of an external review process. This consumed a large chunk of time from Fall 1999 through the External Review visit in the Fall of 2000. I also was responsible for preparing the Course Schedule for one year of this term.

Chair, College of Science and Mathematics Computer Advisory Committee. 1998-2001. Member and chair of planning subcommittee, 1993-1997. Committee provides direction on the development of the computational infrastructure of the COSM. The committee has an annual budget of ~$280,000/year determined by annual student enrollment in COSM classes. I also wrote the prospectus for the CACTUS Initiative to establish an $5-10M endowment for a Center for the Application of Computer Technology to Undergraduate Students. CACTUS was one of the top priorities for the College of Science and Mathematics in USC's Bicentennial fund-raising drive.

Chair, Environmental Sciences Review Committee, College of Science and Mathematics. 2000. This committee was charged with developing recommendations for how to best build and promote environmental sciences research and education both with the COSM and university wide. This committee had representatives from interested COSM departments, MSCI, Baruch Institute, Geography, and Public Health. The resulting report was an early attempt to what became a decade-long struggle for USC to organize and link its environmental activities in a manner such that the whole is greater than the sum of its parts. The efforts came to fruition in 2010 with the formation of the School of the Earth, Ocean, and Environment as the umbrella from which to promote USC's strengths in these areas.

Dean Search Committee, College of Science and Mathematics. 1997-1998. Reviewed 70+ applications for COSM Dean. Hosted short list of candidates. Made recommendations to Provost and President.

Funding History - Thomas J. Owens

The following table summarizes my external funding history since 1985. In cases where I have collaborated with PIs from other institutions, only the amount awarded to USC is included. Co-PIs from both USC and collaborating institutions are indicated where appropriate. Unless indicated otherwise, I am the Lead PI for USC on these awards. Details of currently active grants are listed below.

Successful Grant Proposals since 1985

Agency	Number of Awards	Total Amount
National Science Foundation	16	$2,563,650
The IRIS Consortium	9	1,270,951
Air Force Office of Scientific Research	2	375,544
South Carolina Commission on Higher Education	1	425,248
Sun Microsystems	2	135,265
Lawrence Livermore National Laboratory	1	66,316
USGS NEHRP Program	3	706,857
SCUREF/Savannah River Site	1	345,000
GEGEO Industrial Sponsors	1	900,000
Marathon International Services Ltd	1	993,299
TOTALS	**37**	**$7,782,130**

Currently Active Grants

Title: *The GEGEO Program, Science & Engineering Education in Equatorial Guinea*
Agency: Corporate Sponsors (Marathon, Hess, Noble Energy, South Atlantic Natural Resources)
Amount: $4.6 million since 2004 ($900,000 since 1/12 when I became PI and Director)

Title: *Earthquake Monitoring in South Carolina*
Agency: SCUREF-SRS
Amount: $345,000, 1/10-9/12 (Annual Continuing Awards of $115,000/yr)

Title: *Cooperative Mid-America Integrated Seismic Network – USC*
Agency: USGS, NEHRP
Amount: $434,883, 2/10-1/15

Title: *REV & USArrayMonitor Maintenance*
Agency: IRIS
Amount: $46,000, 1/1-12/12

Title: *GEGEO-UNGE English Language Program*
Co-PI: Dr. Alexandra Rowe, Director, USC English Program for Internationals
Agency: Marathon International Services Ltd
Amount: $2,282,990, 9/12-12/15 (Initial, Phase I Award: $993,299)

Previously Funded Grants

Details of previously funded grants can be provided upon request.

REFEREED JOURNAL ARTICLES – THOMAS J. OWENS

Total Refereed Publications since 1980: 61 (excludes articles in list labeled *"Electronic Seismologist Commentary")*

Papers in Preparation

The Sierra Nevada EarthScope Project (SNEP) team is in the process of preparing papers reporting the results of our project.

Submitted Papers

(none)

Papers in Press

Gilbert, H., Y. Yang, D.W. Forsyth, C. Jones, T. Owens, G. Zandt, and J. Stachnik. Imaging lithospheric foundering in the structure of the Sierra Nevada, *Geospheres, submitted 12/2011*.

Published Papers

Frassetto, A. , G. Zandt, H. Gilbert, T.J. Owens, and C.H. Jones (2011). Images of lithospheric foundering and its consequences for the Sierra Nevad, Geosphere, Volume: 7 Issue: 4 Pages: 898-921 DOI: 10.1130/GES00570.1 Published: AUG 2011

Frassetto, A., G. Zandt, H. Gilbert, T.J. Owens, C.H. Jones (2010). Improved imaging with phase-weighted common conversion point stacks of receiver functions, Geophysical Journal International, *182,* 368-374, doi: 10.1111/j.1365-246X.2010.04617.x.

Julia, J, J. Jagadeesh, SS Rai, and TJ Owens (2009). Deep crustal structure of the Indian shield from joint inversion of P-wave receiver functions and Rayleigh-wave group velocities: Implications for Precambrian crustal evolution, J. Geophys. Res.*, 114,* B10310, doi: 10.1029/2008JB006261.

Gilbert, H., C. Jones, T.J. Owens and G. Zandt (2007). Initial EarthScope FlexArray deployment images lithospheric foundering in the Sierra Nevada, EOS, Transactions of the American Geophysical Union*,* 88, 225-236.

Bastow, I., T.J. Owens, G. Helffrich, and J.H. Knapp (2007). Spatial and temporal constraints on sources of anisotropy: Evidence from the Scottish Highlands, Geophysical Research Letters*, 34,* doi: 10.1029/2006GL028911.

Benoit, M. H., A. A. Nyblade, T. J. Owens, and G. Stuart (2006), Mantle transition zone structure and upper mantle S velocity variations beneath Ethiopia: Evidence for a broad, deep-seated thermal anomaly, Geochem. Geophys. Geosyst., 7, Q11013, doi:10.1029/2006GC001398.

Crotwell, H.P. and T.J. Owens (2005). Automated receiver function processing, Seismological Research Letters, 76, 702-708.

Owens, T.J., H.P. Crotwell, C. Groves, and P. Oliver-Paull (2004). SOD: Standing Order for Data, Seismological Research Letters, 75, 515-520.

Zandt, G., H. Gilbert, T.J. Owens, M. Ducea, J. Saleeby, and C.H. Jones (2004). Active foundering of a continental arc root beneath the southern Sierra Nevada in California, Nature*,* 431 , 41-46.

Walker, K.T, A.A. Nyblade, S.L. Klemperer, G.H.R. Bokelmann, and T.J. Owens (2004). On the relationship between extension and anisotropy: Constraints from shear-wave splitting across the East African Plateau, J. Geophys. Res., 109(B8), 1-21, DOI:10.1029/2003JB002866.

Owens, T.J. (2004), Practical Problem-solving in Seismology, Seismological Research Letters, 75, 205. ** *Electronic Seismologist Commentary* **

Owens, T.J. (2004), Group Therapy for Seismological Data Collectors, Seismological Research Letters,75, 379. ** *Electronic Seismologist Commentary* **

Asencio, E., J.H. Knapp, T.J. Owens, and G. Helffrich (2003). Mapping fine-scale heterogeneities within the continental mantle lithosphere beneath Scotland: combining active- and passive-source seismology, Geology, 31, 477-480.

Owens, T.J. and J. Fowler (2003). New instrumentation drives discovery of the earth's deep interior, The Leading Edge, 22, 220-223. [INVITED PAPER FOR SPECIAL SEG VOLUME]

Bartholomew, J., J.R. Carpenter, and T.J. Owens (2003). Teaching computer-based high school modules in a classroom setting. Journal of Geoscience Education, 51, 325-328.

Frassetto, A., T.J. Owens, and H.P. Crotwell (2003). Evaluating the Network Time Protocol (NTP) for timing in the South Carolina Earth Physics Project (SCEPP), Seismological Research Letters, 74, 649-652.

Helffrich, G., E. Asencio, J. Knapp, T. Owens (2003). Transition zone structure in a tectonically inactive area: 410- and 660-km discontinuity properties under the northern North Sea, Geophys. J. Int., 155, 193-199.

Owens, T.J. (2003). Of Drums and Needles ... disappearing icons of seismology?, Seismological Research Letters, 74, 45. ** *Electronic Seismologist Commentary* **

Owens, T.J. (2003). Seismologists are doing IT!, Seismological Research Letters, 74, 324. ** *Electronic Seismologist Commentary* **

Owens, T.J. (2003). Cyberinfrastructure?, Seismological Research Letters, 74, 441. ** *Electronic Seismologist Commentary* **

Owens, T.J. (2002), News Flash ... Information Technology is here to stay!, Seismological Research Letters, 73, 520-522.

Owens, T.J. (2002), Are we ready for the Great Flood?, Seismological Research Letters, 73, 369-371.

Langston, C.A., A.A. Nyblade, T.J. Owens (2002). Regional wave propagation in Tanzania, East Africa, J. Geophys. Res, 107. 1-18.

Hamburger, M., G.L. Pavlis, R.A. Phinney, D. Steinburg, T.J. Owens, and M. Hall-Wallace (2001). New science education initiative brings seismology into the classroom, EOS, Transactions, American Geophysical Union, 82, 266-267 (June 12, 2001).

Owens, T.J. (2000). Current and future trends in seismological investigations of the continental lithosphere, Current Science, 79, 1201-1207.

Owens, T.J., A.A. Nyblade, H. Gurrola, and C.A. Langston (2000). Mantle transition zone structure beneath Tanzania, East Africa, Geophys. Res. Letters, 27, 827-830.

Brazier, R.A., A.A. Nyblade, C.A. Langston, and T.J. Owens (2000). Pn wave velocities beneath the Tanzania craton and adjoining rifted mobile belts, East Africa, Geophys. Res. Letters, 27, 2365-2368.

Nyblade, A.A., T.J. Owens, H. Gurrola, J. Ritsema, and C.A. Langston (2000). Seismic evidence for a deep upper mantle thermal anomaly beneath east Africa, Geology, 28, 599-602.

Crotwell, H.P., T.J. Owens, and J. Ritsema (1999). The TauP Toolkit: Flexible seismic travel-time and raypath utilities, Seis. Res. Letters, 70, 154-170.

Zhao, M., C.A. Langston, A.A. Nyblade, and T.J. Owens (1999). Upper mantle velocity structure beneath southern Africa from modeling regional seismic data, J. Geophys. Res., 104, 4,783-4,794.

Ritsema, J., A.A. Nyblade, T.J. Owens, C.A. Langston, and J.C. VanDecar (1998). Upper mantle seismic velocity structure beneath Tanzania, East Africa: Implications for the stability of cratonic lithosphere, J. Geophys. Res., 103, 21,201-21,213.

Langston, C.A., R. Brazier, A.A. Nyblade, and T.J. Owens (1998). Local magnitude scale and seismicity rate for Tanzania, East Africa, Bull. Seis. Soc. Am., 88, 712-721.

Vernon, F.L., G.L. Pavlis, T.J. Owens, D.E. McNamara, and P.N. Anderson (1998). Near-surface scattering effects observed with a high-frequency phased array at Pinyon Flats, California, Bull. Seis. Soc. Am, 88, 1548-1560.

Owens, T.J. and G. Zandt (1997). The implications of crustal property variations on models of Tibetan Plateau evolution, Nature, 387, 37-43.

Last, R., A.A. Nyblade, C.A. Langston, and T.J. Owens (1997). Crustal structure of the East African Plateau from receiver functions and Rayleigh wave phase velocities, J. Geophys. Res., 102, 24,469-24,483.

Zhao, M., C.A. Langston, A.A. Nyblade, and T.J. Owens (1997). Lower-crustal rifting in the Rukwa Graben, East Africa, Geophys. J. International, 129, 412-420.

McNamara, D.E., W.R. Walter, T.J. Owens, and C.J. Ammon (1997). Upper mantle velocity structure beneath the Tibetan Plateau from Pn travel time tomography, J. Geophys. Res., 102, 493-506.

Gurrola, H., J.B. Minster, and T. Owens (1996). Reply to comments by G. Kosarev, N. Petersen, and L.P. Vinnik on 'The use of velocity spectrum for stacking receiver functions and imaging upper mantle discontinuities', Geophys. J. Int., 124, 642-646.

McNamara, D.E., T.J. Owens, and W.R. Walter (1996). Lg propagation in the Tibetan Plateau, Bull. Seism. Soc. Am., 85, 457-469.

Nyblade, A.A, C. Birt, C.A. Langston, T.J. Owens, and R.J. Last (1996). Seismic experiment probes cratonic structure beneath East Africa, EOS, Trans. Am. Geophys. Un., 77, 517+522.

Wagner, G.S. and T.J. Owens (1996). Signal detection using multi-channel seismic data, Bull. Seis. Soc. Am., 86, 221-231.

McNamara, D.E, T.J. Owens, and W.R. Walter (1995). Observations of regional phase propagation in the Tibetan Plateau, J. Geophys. Res., 100, 22,215-22,229.

Randall, G.E., C.J. Ammon, and T.J. Owens (1995). Moment-Tensor estimation using regional seismograms from portable network deployments, Geophys. Res Let., 22, 1665-1668.

Wagner, G.S. and T.J. Owens (1995). Broad-band eigen-analysis for 3-component seismic array data, IEEE Trans. on Signal Processing, 43, 1738-1741.

Zhu, L., T.J. Owens, and G.E. Randall (1995). Lateral variation in crustal structure of the northern Tibetan Plateau inferred from teleseismic receiver functions, Bull. Seis. Soc. Am., 85,\f 1531-1540.

Gurrola, H., J.B. Minster, T. Owens (1994). The use of velocity spectrum for stacking receiver functions and imaging upper mantle discontinuities, Geophys. J. Int., 117, 427-440.

McNamara, D.E., T.J. Owens, P.G. Silver, and F.T. Wu (1994). Shear wave anisotropy beneath the Tibetan Plateau, J. Geophys. Res., 99, 13,655-13,665.

Randall, G.E. and T.J. Owens (1994). Array analysis of the 1988-89 Basin and Range Passive-source experiment data, Geophys. J. 116, 618-636.

McNamara, D.E., and T.J. Owens (1993). Azimuthal shear wave velocity anisotropy in the Basin and Range province using Moho Ps converted phases, J. Geophys. Res., 98, 12,003-12,017.

Owens, T.J., G.E. Randall, F.T. Wu (1993). PASSCAL Instrument Performance during the Tibetan Plateau Passive Seismic Experiment, Bull. Seis. Soc. Am., 83, 1959 - 1970.

Rajendran, K., M.E. Salvador, T.J. Owens (1993). Three dimensional velocity structure of the Oroville Reservoir Region, CA from local earthquake tomography, Geophys. Res. Let., 20, 1627-1630.

Wagner, G.S. and T.J. Owens (1993). Bearing-time records of three-component seismic array data and their application to the study of local earthquake coda, Geophys. Res. Let., 20, 1823-1826.

Zeng, R.S., F.T. Wu, and T.J. Owens (1993). An introduction to the Sino-US joint project "Lithospheric structure and dynamics in Tibetan Plateau", Acta Seismologica Sinica, 6, 249-250.

Zhu, L., R.S. Zeng, F.T. Wu, T.J. Owens, and G.E. Randall (1993). Preliminary study of crust-upper mantle structure of the Tibetan Plateau by using broadband teleseismic body waveforms, Acta Seismologica Sinica, 6, 305-316.

Lapp, D.B., R.S. Crosson, and T.J. Owens (1990). P-waveform analysis for local subduction geometry south of Puget Sound, Washington, Pure and Applied Geophysics, 133, 349-365.

Owens, T.J., R.S. Crosson, and M. Hendrickson (1988). Constraints on the subduction geometry beneath western Washington from broadband teleseismic waveform modeling, Bull. Seis. Soc. Am., 78, 1319-1334.

Owens, T.J. and R.S. Crosson (1988). Shallow structure effects on broadband teleseismic P-waveforms, Bull. Seis. Soc. Am., 78, 96-108.

Crosson, R.S. and T.J. Owens (1987). Slab geometry of the Cascadia subduction zone beneath Washington from earthquake hypocenters and teleseismic converted waves, Geophys. Res. Lett., 14, 824-827.

Owens, T.J. (1987). Crustal structure of the Adirondack mountains determined from broadband teleseismic waveform modeling, J. Geophys. Res., 92, 6391-6401.

Owens, T.J., S.R. Taylor, and G. Zandt (1987). Crustal structure at Regional Seismic Test Network stations determined from inversion of broadband teleseismic P waveforms, Bull. Seis. Soc. Am., 77, 631-662.

Zandt, G., and T.J. Owens (1986). Comparison of crustal velocity profiles determined by seismic refraction and teleseismic methods, Tectonophysics, 128, 155-161.

Owens, T.J., and G. Zandt (1985). The response of the continental crust-mantle boundary observed on broadband teleseismic receiver functions, Geophys. Res. Letters, 12, 705-708.

Owens, T.J., G. Zandt, and S.R. Taylor (1984). Seismic evidence for an ancient rift beneath the Cumberland Plateau, Tennessee: A detailed analysis of broadband teleseismic P-waveforms, J. Geophys. Res., 89, 7783-7795.

Taylor, S.R., and T.J. Owens (1984). Inversion of receiver transfer functions for crustal structure, Earthquake Notes, 55, 5-12.

Owens, T.J. (1983) Normal faulting and flexure in an elastic-perfectly plastic plate, Tectonophysics, 93, 129-150.

Zandt, G., and T.J. Owens (1980). Crustal flexure associated with normal faulting and implications for seismicity along the Wasatch Front, Utah, Bull. Seis. Soc. Am., 70, 1501-1520.