

# Curriculum Vitae

## Costas Emmanuel Synolakis

<b>1</b>	<b>EDUCATION</b>	<b>1</b>
<b>2</b>	<b>PROFESSIONAL POSITIONS</b>	<b>2</b>
<b>3</b>	<b>AWARDS AND HONORS</b>	<b>2</b>
<b>4</b>	<b>PUBLICATIONS IN PEER REVIEWED JOURNALS</b>	<b>2</b>
<b>5</b>	<b>BOOKS AND EDITED VOLUMES</b>	<b>8</b>
<b>6</b>	<b>CHAPTERS IN BOOKS AND PEER-REVIEWED PROCEEDINGS</b>	<b>8</b>
<b>7</b>	<b>RESEARCH STUDIES AND REPORTS</b>	<b>12</b>
<b>8</b>	<b>ABSTRACTS IN CONFERENCES PROCEEDINGS</b>	<b>12</b>
<b>9</b>	<b>FIELD SURVEYS FOR EARTHQUAKES AND TSUNAMIS</b>	<b>23</b>
<b>10</b>	<b>PhD THESES</b>	<b>24</b>
<b>11</b>	<b>FUNDED RESEARCH, CONTRACTS AND GRANTS</b>	<b>25</b>
<b>12</b>	<b>INVITED SEMINARS</b>	<b>27</b>
<b>13</b>	<b>OTHER APPOINTMENTS, PROFESSIONAL COMMITTEES</b>	<b>28</b>
<b>14</b>	<b>PERSONAL INFORMATION</b>	<b>29</b>

### Abstract

Statistics-at-a-glance : Over 45,000 individual references in Google, (Search Synolakis tsunami) 11000 in Google Scholar, 115 peer reviewed papers with over 5000 ISI citations, ISI h-index 43, GS h-index 57, five edited books, over 220 conference presentations, ten DISCOVERY, seven BBC, four National Geographic, four History Channel, one ZDF documentaries and over 250 US and international TV appearances in US, Canadian, Turkish, Japanese, Vanuatu, PNG and Greek TV prime time interviews. Twenty five interviews with the *New York Times*, *Washington Post*, *the Wall Street Journal*, *the Economist*, *Der Spiegel*, *New Zurcher Zeitung*, *Le Monde*, and *El Pais*, and over 40 in the *Los Angeles Times*, *Seattle Post*, and *San Francisco Examiner*, more than 100 interviews in Greek newspapers. Over US\$ 6.5 million in individual US and EU grants (not including those with my name while President of HCMR); 94 invited seminars, led or co-organized 23 international tsunami surveys. USC's Viterbi School of Engineering consistently ranks in the top ten of the US News and World Report rankings. The site [www.usc.edu/dept/tsunamis](http://www.usc.edu/dept/tsunamis) of the Tsunami Research Center that I founded has over 35 million hits since its inception in 1998. In 2016, I was elected to the 46-member Academy of Athens, which is the Greek National Academy for letters, arts, law, medicine, engineering and the sciences.

## 1 EDUCATION

Ph.D., Civil Engineering, California Institute of Technology.	1986
M.S., Civil Engineering, California Institute of Technology.	1979
B.S., Engineering and Applied Science, California Institute of Technology.	1978

## 2 PROFESSIONAL POSITIONS

President, Hellenic Centre for Marine Research. HCMR is the Hellenic National Marine Sciences Centre with three institutes, one aquarium and two oceanographic ships.	2011–2013
Professor of Natural Disasters and Environmental Fluid Mechanics, Technical University of Crete	2004
Professor of Civil, Environmental, Mechanical and Aerospace Engineering, University of Southern California (USC).	1997
Associate Professor of Civil, Environmental and Aerospace Engineering, USC.	1991
Visiting Professor, University of California, Berkeley.	1994
Assistant Professor of Civil and Environmental Engineering, USC.	1985

## 3 AWARDS AND HONORS

Member, <i>Academia Scientiarum et Artium Europaea</i> .	2017
Member, <i>Academy of Athens</i> .	2016
<i>The Moffatt and Nichol Harbor and Coastal Engineering Award of the American Society of Civil Engineers</i> .	2015
<i>The Sergey Soloviev Medal on Natural Hazards of the European Geosciences Union</i> .	2014
<i>The County of Los Angeles Award for Emergency Preparedness</i> .	2001
<i>Presidential Young Investigator, the White House</i> .	1989
<i>The Alexander Onassis Public Benefit Foundation Fellowship</i> .	1981

## 4 PUBLICATIONS IN PEER REVIEWED JOURNALS

116. – Flouri E. T., Dougalis, V., Synolakis, C.E., 2018, Numerical modeling of tsunamis and tsunami vulnerability analysis for Heraklion, Crete, *Math, Meth. Appl. Sci.* **41** (3), 1068–1073.
115. – Foteinis, S., Hancock, J., Mazarakis, N., Tsoutsos, T., Synolakis, C.E., 2017, A comparative analysis of wave power in the nearshore by WAM estimates and in-situ (AWAC) measurements. The case study of Varkiza, Athens, Greece., *Energy* **138**, 500–508.
114. – Marivela-Colenarejo, R., Weiss, R., Synolakis, C.E., 2017, Temporal and Spatial Evolution of Potential Energy, Kinetic Energy, and Momentum Flux in Tsunami Waves during Breaking and Inundation, *JOURNAL OF WATERWAY PORT COASTAL AND OCEAN ENGINEERING*, **143** (5), UNSP 04017018.
113. – Karagiannis, G.M., Synolakis, C.E., 2017, Twenty Challenges in Incident Planning, *Journal of Homeland Security and Emergency Management*, **14**(2), 20160061.
112. – Mitsotakis, D., Synolakis, C., McGuinness M., 2017, A modified Galerkin/finite element method for the numerical solution of the Serre-Green-Naghdi system, *International Journal of Numerical Methods in Fluids*, **83** (10), 755–778.
111. – Titov, V.V., Kanoglu, U., Synolakis, C.E., 2016, Development of MOST for Real-Time Tsunami Forecasting, *JOURNAL OF WATERWAY PORT COASTAL AND OCEAN ENGINEERING*, **142** (6), UNSP 03116004.
110. – Kalligeris, N., Skanavis, V., Tavakoll, S., Ayka, A., El Safty, H., Lynett, P. and Synolakis, C.E., 2016, Lagrangian flow measurements and observations of the 2015 Chilean tsunami in Ventura, CA, *GEOPHYSICAL RESEARCH LETTERS*, **43** (10), 5217–5224, DOI: 10.1002/2016G.109.
- 109.– Okal E.A. and Synolakis, C.E., 2016, Sequencing of tsunami waves : why the first wave is not always the largest, *GEOPHYSICAL JOURNAL INTERNATIONAL* **204**, 719–735, doi: 10.1093/gji/ggv457.
- 108.– England, P., Howell, A., Jackson J., and Synolakis, C.E., 2015, Palaeotsunamis and tsunami hazards in the Eastern Mediterranean, *PHILOSOPHICAL TRANSACTIONS R. SOC. A* **373** (2053), DOI:10.1098/rsta.2014.0379.
- 107.– Synolakis, C.E. and Kánoğlu, U., 2015, The Fukushima accident was preventable, *PHILOSOPHICAL TRANSACTIONS R. SOC. A* **373** (2053), 1–23, DOI:10.1098/rsta.2014.0374.
- 106.– Howell, A., Jackson, J., England, P., Higham, T., and Synolakis C.E., 2015, Late Holocene uplift of Rhodes, Greece: evidence for a large tsunamigenic earthquake and the implications for

the tectonics of the eastern Hellenic Trench System, *GEOPHYSICAL JOURNAL INTERNATIONAL* **203**, 459–474, DOI:10.1093/gji/ggv307.

105.– Kānoğlu, U., Titov V.V., Bernard, E., and Synolakis, C.E., 2015, Tsunamis : bridging science, engineering, and society, *PHILOSOPHICAL TRANSACTIONS R. SOC. A* **373** (2053), DOI:10.1098/rsta.2014.0369.

104.– Foteinis, S. and Synolakis, C.E., 2015, Beach Erosion Threatens Minoan Beaches : A case study of coastal retreat in Crete, *SHORE AND BEACH* **83**(1), 1–10.

103.– Stefanakis, T.S., , Dias, F., & Synolakis, C.E., 2015, Tsunami Generation Above a Sill, *PURE AND APPLIED GEOPHYSICS* **172**, 985–1002, DOI: 10.1007/s00024-014-1021-6.

102.– Stefanakis, T.S., Contal, E., Vayatis, N., Dias, F., & Synolakis, C.E., 2014, Can small islands protect nearby coasts from tsunamis? An active experimental design approach, *PROCEEDINGS OF THE ROYAL SOCIETY A.* **470**, 20140575, DOI:10.1098/rspa.2014.0575

101.– Kazolea, M., Delis, A., & Synolakis C.E., 2014, Numerical treatment of wave breaking on unstructured finite volume approximations for extended Boussinesq-type equations, *JOURNAL OF COMPUTATIONAL PHYSICS* **271**, 281–305, DOI: 10.1016/j.jcp.2014.01.030.

100.– Valle, B.L., Kalligeris, N., Findikakis, A.N., Okal, E.A., Melilla, L. & Synolakis, C.E., 2014, Plausible megathrust tsunamis in the eastern Mediterranean Sea, *ENGIN. COMP. MECH.* **167** (EM3), 99–105, DOI.org/10.1680/eacm.13.00027.

99.– Kānoğlu U., Titov, V.V., Aydın, B., Moore, C., Stefanakis, T.S., Zhou, H., Spillane, M., & Synolakis, C.E., 2013, Focusing of long waves with finite crest over constant depth, *PROC. R. SOC. A.* **469** doi:10.1098/rspa.2013.0015.

98.– Flouri, E. T., Kalligeris, N., Alexandrakakis, G., Kampanis, N. and Synolakis, C.E., 2013, Application of a finite difference computational model to the simulation of earthquake generated tsunamis, *APPLIED NUMERICAL MATHEMATICS* **67**, 111–125.

97.– Foteinis, S., Kallithrakas–Kontos, N.G. and Synolakis, C., 2013, Heavy Metal Distribution in Opportunistic Beach Nourishment: A Case Study in Greece, *THE SCIENTIFIC WORLD JOURNAL* , Article Number: 472149.

96.– Kazolea, M., Dellis, A.J., Nikolos, I.K., Synolakis, C.E., 2012, An unstructured FV numerical scheme for extended 2D Boussinesq-type equations. *COASTAL ENGINEERING*, **69**, 42–66, DOI: 10.1016/j.coastaleng.2012.05.008.

95.– Eberling, C.W., Okal, E.A., Kalligeris N., Synolakis, C.E., 2012, Modern seismological re-assessment and tsunami simulation of historical Hellenic Arc earthquakes, *TECTONOPHYSICS*, **530–531**, 225–239, DOI: 10.1016/j.tecto.2011.12.036.

94.– Hill, E.M., Borrero, J.C., Huang, Z., Qiu, Q., Banerjee P, Natawidjaja D.H., Elosegui, P., Fritz, H.M., Suwargadi, B.W., Pramantyo, I.R., Lee, L–L., Macpherson K.A., Skanavis, V. Synolakis, C.E., Sieh, K., 2012, The 2010  $M_w$  7.8 Mentawai earthquake: Very shallow source of a rare tsunami earthquake determined from tsunami field survey and near-field GPS data, *JOURNAL OF GEOPHYSICAL RESEARCH–SOLID EARTH*, **117** , Article Number: B06402, DOI:10.1029/2012JB009159.

93.– Mitsoudis, D.A., Flouri, E.T., Chrysoulakis, N., Kamarinakis, Y., Okal E.A., Synolakis, C.E., 2012, Tsunami Hazard in the southeast Aegean Sea, *COASTAL ENGINEERING*, **60**, 136–148, DOI : 10.1016/j.coastaleng.2011.09.004.

92.– Fritz, H.M. Phillips, D.A. Okayasu, A. , Shimosono, T., Liu, H, Mohammed, F., Skanavis, V., Synolakis, C.E., Takahashi, T., 2012, The 2011 Japan tsunami current velocity measurements from survivor videos at Kesennuma Bay using LiDAR, *GEOPHYSICAL RESEARCH LETTERS* **39**, L00G23 , DOI: 10.1029/2011GL050686.

91.– Moore, A., Goff, J., McAdoo, B.G. , Fritz, H.M., Gusman, A., Kalligeris, N., Kalsum, K., Susanto, A ., Suteja, D., Synolakis, C.E., 2011, Sedimentary Deposits from the 17 July 2006 Western Java Tsunami, Indonesia: Use of Grain Size Analyses to Assess Tsunami Flow Depth, Speed, and Traction Carpet Characteristics, *PURE AND APPLIED GEOPHYSICS* **168** (11) 1951–1961. DOI: 10.1007/s00024–011–0280–8.

90.– Fritz, H.M., Petroff, C.M., Catalan, P.A., Cienfuegos, R., Winckler, P ., Kalligeris, N., Weiss, R., Barrientos, S.E., Meneses, G ., Valderas-Bermejo, C., Ebeling, C., Papadopoulos,

- A., Contreras, M., Almar, R., Dominguez, J.C. Synolakis, C.E., 2011, Field Survey of the 27 February 2010 Chile Tsunami, *PURE AND APPLIED GEOPHYSICS* **168** (11) 1989–2010, DOI: 10.1007/s00024-011-0283-5.
- 89.– Barberopoulou, A., Legg, M.R., Uslu, B., Synolakis, C.E., 2011, Reassessing the tsunami risk in major ports and harbors of California I: San Diego, *NATURAL HAZARDS* **58** (1), 479–496, DOI: 10.1007/s11069-010-9681-8.
- 88.– Titov, V.V., Moore, C.W., Greenslade, D.J.M., Pattiaratchi, C., Badal, R., Synolakis, C.E., K anođlu, U., 2011, A New Tool for Inundation Modeling: Community Modeling Interface for Tsunamis (ComMIT), *PURE AND APPLIED GEOPHYSICS* **168** (11), 2121–2131, DOI: 10.1007/s00024-011-0292-4.
- 87.– Fritz, H.M., Borrero, J.C., Synolakis C.E., Okal, E.A., Weiss, R., Titov, V.V. Jaffe, B.E., Foteinis, S., Lynett, P.J., Chan, I.C., Liu, P.L-F., 2011, Insights on the 2009 South Pacific tsunami in Samoa and Tonga from field surveys and numerical simulations, *EARTH-SCIENCE REVIEWS* **107** (1–2), 66–75, DOI: 10.1016/j.earscirev.2011.03.004.
- 86.– Barberopoulou, A. Borrero, J. C., Uslu, B., Legg, M.R., Synolakis, C.E., 2011, A Second Generation of Tsunami Inundation Maps for the State of California, *PURE AND APPLIED GEOPHYSICS* **168** (11), 2133–2146, DOI: 10.1007/s00024-011-0293-3.
- 85.– Ewing, L., Flick, R.E., Synolakis, C.E., 2010, A review of coastal community vulnerabilities toward resilience benefits from disaster reduction measures, *ENVIRONMENTAL HAZARDS* **9**(3) 222–232, DOI: 10.3763/ehaz.2010.0050.
- 84.– Okal, E.A., Synolakis, C.E., & Kalligeris, N., 2011, Tsunami Simulations for Regional Sources in the South China and Adjoining Seas, *PURE AND APPLIED GEOPHYSICS*, **168**, 1153–1173.
- 83.– Okal, E.A., Fritz, H.M., Synolakis, C.E., & eight others, 2010, Field Survey of the Samoa Tsunami of 29 September 2009, *SEISMOLOGICAL RESEARCH LETTERS* **81**(4), 577–591.
- 82.– Ambraseys, N. & Synolakis, C.E., 2010, Tsunami Catalogs for the Eastern Mediterranean, Revisited, *JOURNAL OF EARTHQUAKE ENGINEERING*, **14** (3), 309–330.
- 81.– Synolakis, C.E. & Foteinis S., 2009, Choking on carbon emissions from Greek academic paperwork, *NATURE*, **461** (7261), 167.
- 80.– Gonzalez, F.I, Geist, E.L., Jaffe, B., K anođlu, U., Mofjeld, H., Synolakis, C.E., and fifteen others, 2009, Probabilistic tsunami hazard assessment at Seaside, Oregon, for near- and far-field seismic sources, *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*, **114**, C11023.
- 79.– Okal, E.A., Synolakis, C.E., Uslu, B., Kalligeris, N., Voukouvalas, E., 2009, The 1956 earthquake and tsunami in Amorgos, Greece, *GEOPHYSICAL JOURNAL INTERNATIONAL*, **178**(3), 1533–1554.
- 78.– Heidarzadeh M., Pirooz M.D., Zaker N.H., Synolakis C.E., 2009, Evaluating Tsunami Hazard in the Northwestern Indian Ocean, *PURE AND APPLIED GEOPHYSICS*, **165**(11–12), 2045–2058.
- 77.– Barberopoulou, A., Borrero, J.C., Uslu, B., Kalligeris, N., Goltz, J.D., Wilson, R.I., Synolakis, C.E., 2009, New Maps of California to Improve Tsunami Preparedness, *EOS, TRANSACTIONS, AMERICAN GEOPHYSICAL UNION* **90**, 137–144 (EOS Cover Article.).
- 76.– Bruins H.J., MacGillivray, J.A., Synolakis C.E., Benjamini C., Keller J., Kisch H.J, Klugel A, van der Plicht, J., 2008, Geoarchaeological tsunami deposits at Palaikastro (Crete) and the Late Minoan IA eruption of Santorini, *JOURNAL OF ARCHEOLOGICAL SCIENCE* **35**, 191–212, doi:10.1016/j.jas.2007.08.017.
- 75.– Okal, E.A & Synolakis, C.E., 2008, Far-field tsunami hazard from mega-thrust earthquakes in the Indian Ocean, *GEOPHYSICAL JOURNAL INTERNATIONAL*, **172**, 995–1015.
- 74.– Dengler L., Uslu, B., Barberopoulou A., Borrero, J. and Synolakis C., 2008, The Vulnerability of Crescent City, California, to Tsunamis Generated by Earthquakes in the Kuril Islands Region of the Northwestern Pacific, *SEISMOLOGICAL RESEARCH LETTERS*, **79** (5), 609–620.
- 73.– Synolakis, C.E., Bernard, E.N., Titov, V.V., K anođlu, U., and Gonzalez, F.I., 2008, Validation and Verification of Tsunami Numerical Models, *PURE& APPLIED GEOPHYSICS* **165**, 2197–2228.

- 72.– Uslu, B., Borrero, J.C., Denger, L., Synolakis, C.E., 2007, Tsunami inundation at Crescent City, California, *GEOPHYSICAL RESEARCH LETTERS* **34**, L20601.
- 71.– Fritz, H.M., Kongko W., Moore, A., McAdoo, B., Goff, J., Harbitz, C., Uslu, B., Kalligeris, N., Suteja, D., Kalsum, K., Titov, V., Gusman, A., Latief, H., Santoso, .E., Sujoko, S., Djulkarnaen, D., Sunendar, H., and Synolakis, C., 2007, Extreme runup from the 17 July 2006 Java tsunami. *GEOPHYSICAL RESEARCH LETTERS*, **34**, L12602.
- 70.– Okal, E.A., Borrero, J.C., Synolakis, C.E., 2006, Evaluation of Tsunami Risk from Regional Earthquakes at Pisco, Peru, *BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA*, **96**(5), 1634–1648,
- 69.– Sumer, B.M., Ansai, A., Cetin, K.O., Damgaard, J., Gunbar, A.R., Ottesen, N.E., Sawicki, A., Synolakis, C.E., Yalciner, A.C., Ykesel, Y., Zen, K., 2007, Earthquake-Induced Liquefaction around Marine Structures, *JOURNAL OF WATERWAY, PORT, COASTAL, AND OCEAN ENGINEERING*, **133**, 55–82.
- 68.– Borrero, J.C., Sieh, K., Shlieh, M., Synolakis, C.E., 2006, Tsunami inundation modeling for western Sumatra, *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES*, **103** (52), 19673–19677.
- 67.– Kânoğlu, U. and Synolakis, C.E., 2006, Initial Value Problem Solution of the Nonlinear Shallow Water–Wave Equations, *PHYSICAL REVIEW LETTERS*, **97**, 148501–148504.
- 66.– Geist, E.L., Titov, V.V., and Synolakis, C.E., 2006, Tsunami: Wave of Change, *SCIENTIFIC AMERICAN*, **294**, 56–63.
- 65.– Bernard, E. N., Mofjeld, H. O., Titov, V., Synolakis, C. E. & Gonzalez, F. I., 2006, Tsunami: scientific frontiers, mitigation, forecasting, and policy implications. *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY*, A, **364** 1989–2007.
- 64.– Synolakis, C.E., and Bernard, E.N., 2006, Tsunami Science Before and Beyond Boxing Day 2004, *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY*, A **364**, 2231–2265.
- 63.– Synolakis, C.E., and Kong, L., 2006, Runup Measurements of the December 2004 Indian Ocean Tsunami, *EARTHQUAKE SPECTRA* **22** (S3), S67–S91.
- 62.– Fritz, H. M., Synolakis, C.E., and McAdoo, B.G., 2006, Maldives Field Survey after the December 2004 Indian Ocean Tsunami, *EARTHQUAKE SPECTRA* **22** (S3), S137–S154.
- 61.– Fritz, H.M., Borrero, J.C., Synolakis, C.E., 2006, 2004 Indian Ocean tsunami flow velocity measurements from survivor videos, *GEOPHYSICAL RESEARCH LETTERS*, **33** (24). L24605.
- 60.– Goff, J., Liu, P.L.-F., Higman, B., Morton, R., Jaffe, B.E., Fernando, H., Lynett, P., Fritz, H., Synolakis, C. E., and Fernando, S., 2006, Sri Lanka Field Survey after the December 2004 Indian Ocean Tsunami, *EARTHQUAKE SPECTRA* **22** (S3), S155–S172. DOI:10.1193/1.2205897.
- 59.– Borrero, J.C., Synolakis, C.E., and Fritz, H., 2006, Northern Sumatra Field Survey after the December 2004 Great Sumatra Earthquake and Indian Ocean Tsunami, *EARTHQUAKE SPECTRA* **22** (S3), S93–S104, DOI: 10.1193/1.2206793.
- 58.– Okal, E.A., Fritz, H.M., Raad, P.E., Synolakis, C.E., Al-Shijbi, Y., and Al-Saifi, M., 2006, Oman Field Survey after the December 2004 Indian Ocean tsunami, *EARTHQUAKE SPECTRA* **22** (S3), S203–S218, DOI:10:1193/1.2202647.
- 57.– Synolakis, C.E., Okal, E.A, Bernard, E.N, 2005, The Megatsunami of December 26, 2004, *THE BRIDGE*, National Academy of Engineering, **35**, (2), 26–35.
- 56.– Synolakis, C.E., 2005, India must cooperate on tsunami warning system, *NATURE*, **434** 17–18.
- 55.– Liu, P.L-F., Lynett, P., Fernando, H., Jaffe, B.E., Fritz, H., Higman, B., Morton, R., Goff, J., Synolakis, C.E., 2005, Observations by the International Tsunami Survey Team in Sri Lanka, *SCIENCE*, **308**, 1595.
- 54.– Borrero, J., Cho, S., Moore, J.E., Richardson, H.W, and Synolakis, C.E., 2005, Could it happen here ?, *CIVIL ENGINEERING* **75** (4) 55â65, 133.
- 53.– Liu, P.L-F., Wu, T-R., Raichlen, F., Synolakis, C.E., Borrero, J, 2005, Runup and rundown generated by three-dimensional sliding masses, *JOURNAL OF FLUID MECHANICS*, **536**, 107–144.

- 52.– Borrero J.C., Legg, M.R., Synolakis, C.E., 2004, Tsunami Sources in the Southern California Bight, *GEOPHYSICAL RESEARCH LETTERS*, **31** L13211.
- 51.– Okal, E.A., and Synolakis, C.E., 2004, Source discriminants for near field tsunamis, *GEOPHYSICAL JOURNAL INTERNATIONAL*, **158**, 899–912.
- 50.– Okal, E.A., Borrero, J., and Synolakis, C.E., 2004, The earthquake and tsunami of 1865 November 17: evidence for far-field tsunami hazard from Tonga, *GEOPHYSICAL JOURNAL INTERNATIONAL*, **157**, 164–174.
- 49.– Legg, M.R., Borrero, J.C., Synolakis, C.E., 2004, Tsunami Hazards Associated with the Catalina Fault in Southern California, *EARTHQUAKE SPECTRA*, **20** (3), 917–950.
- 48.– Liu, P. L–F., Lynett, P., Synolakis, C.E., 2003, Analytical solutions for forced long waves on a sloping beach, *JOURNAL OF FLUID MECHANICS*, **478**, 101–109.
- 47.– Okal, E.A., Plafker, G., Synolakis, C.E., Borrero, J.C., 2003, Near field survey of the 1946 Aleutian tsunami on Unimak and Senak islands, *BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA*, **93** (3), 1226–1234.
- 46.– Okal, E.A., Synolakis, C.E., Fryer, G., Heinrich, P., Borrero, J., Ruscher, D., Arcas, D., Guille, G., Rousseau, D., 2002, A Field Survey of the 1946 Aleutian tsunami in the far field, *SEISMOLOGICAL RESEARCH LETTERS*, **73** (4), 490–503, doi: 10.1785/gssrl.73.4.490,
- 45.– Bardet, J.-P., Synolakis, C.E., Davies, H.L., Imamura, F., and Okal, E.A., 2003, Landslide Tsunamis: Recent Findings and Research Directions, *PURE AND APPLIED GEOPHYSICS*, **160**, (10/11), 1793–1809.
- 44.– Lynett, P.J., Borrero, J.C., Liu, P. L–F., and Synolakis, C.E., 2003, Field Survey and Numerical Simulations: A Review of the 1998 Papua New Guinea Tsunami, *PURE AND APPLIED GEOPHYSICS*, **160**, (10–11), 2119–2146.
- 43.– Okal, E.A. and Synolakis, C.E., 2003, A Theoretical Comparison of Tsunamis from Dislocations and Landslides, *PURE AND APPLIED GEOPHYSICS*, **160**, (10/11), 2177–2188.
- 42.– Borrero, J.C., J. Bu, C. Saiang, B. Uslu, J. Freckman, B. Gomer, E.A. Okal, and C.E. Synolakis, 2003, Field Survey and Preliminary Modeling of the Wewak, Papua New Guinea Earthquake and Tsunami of September 9, 2002. *SEISMOLOGICAL RESEARCH LETTERS*, **74**, 393–405.
- 41.– Synolakis, C.E., Bardet, J.P., Borrero, J., Davies, H., Okal, E., Silver, E., Sweet, J., Tappin, D., 2002, The slump origin of the 1998 Papua New Guinea tsunami, *PROCEEDINGS OF THE ROYAL SOCIETY OF LONDON A* **458**, 763–769.
- 40.– Okal, E.A., and Synolakis, C.E., 2001, Comment on "Origin of the 17 July 1998 Papua New Guinea Tsunami: Earthquake or Landslide ? " by E.L. Geist, *SEISMOLOGICAL RESEARCH LETTERS*, **72**, **3**, 362–366.
- 39.– Synolakis, C.E., and Fryer, G., 2001, Tsunami : the Underrated Hazard, (Book review), *EOS, TRANSACTIONS, AMERICAN GEOPHYSICAL UNION* **82**, 48, 588.
- 38.– Caminade, J.P., Charlie, D. , Kânoğlu, U., Koshimura, S., Matsutomi, H., Moore, A., Ruscher, C. , Synolakis, C. and Takahashi, T., 2001, Vanuatu survey data aids study of earthquake and tsunami *EARTH IN SPACE*, **13** (8) 4–7.
- 37.– Borrero, J., Dolan J., Synolakis, C.E., 2001, Tsunamis Within the Eastern Santa Barbara Channel, *GEOPHYSICAL RESEARCH LETTERS*, **28**, 643–647.
- 36.– Caminade, P., Charlie, D. , Kânoğlu, U., Koshimura, S., Matsutomi, H., Moore, A., Ruscher, C. , Synolakis, C. and Takahashi, T., 2000, Vanuatu earthquake and tsunami cause much damage, few casualties, *EOS, TRANSACTIONS AMERICAN GEOPHYSICAL UNION*, **81** (52) 641, 646–647. (EOS Cover Article).
- 35.– Yalciner, A.C., Altinok, Y. and Synolakis, C.E., Tsunami Waves in Izmit Bay, 2000, *EARTHQUAKE SPECTRA, Special Volume on the 1999 Koaceli, Turkey*, **16**, 55–62.
- 34.– Bourgeois, J., Petroff, C., Yeh, H., Titov, V., Synolakis, C.E., Benson, B., Kuroiwa, J., Lander, J., Norabuena, E., 1999, Geologic Setting, Field Survey and Modeling of the Chimbote, N. Peru, Tsunami of 21 February 1996, *PURE AND APPLIED GEOPHYSICS*, **154**,3/4, 513–540.

- 33.– Kawata, Y., Benson, B.C., Borrero, J.C., Borrero, J.L., Davies, H., de Lange, W., Imamura, F., Letz, H., Nott, J., Synolakis, C.E., 1999, Tsunami in Papua New Guinea Was as Intense as First Thought *EOS, TRANSACTIONS AMERICAN GEOPHYSICAL UNION*, **80** (9) 101, 104–105. (EOS Cover Article).
- 32.– Kânoğlu, U. and Synolakis, C.E., 1998, Long wave runup on piecewise linear topographies, *JOURNAL OF FLUID MECHANICS*, **374**, 1–28.
- 31.– Titov, V.V. and Synolakis, C.E., 1998, Numerical Modeling of Tidal Wave Runup, *JOURNAL OF WATERWAY, PORT, COASTAL, AND OCEAN ENGINEERING*, **124**, (4), 157–171.
- 30.– Titov V.V. and Synolakis, C.E., 1997, Extreme inundation flows during the Hokkaido–Nansei–Oki tsunami, *GEOPHYSICAL RESEARCH LETTERS* **24**, (11), 1315–1318.
- 29.– Borrero, J., Ortiz, M., Titov, V.V., Synolakis, C.E., 1997, Field Survey of Mexican Tsunami, *EOS, TRANSACTIONS AMERICAN GEOPHYSICAL UNION*, **78** (8). 85, 87–88. (EOS Cover Article).
- 28.– Synolakis, C.E., Liu, P. L–F. Carrier, G., Yeh, H., 1997, Tsunamigenic Sea–Floor Deformations, *SCIENCE*, **278**, 598–600.
- 27.– Kitto, A., Pirbazari, M., Badriyha B., Ravindran, V., Tyner, R., Synolakis, C.E., 1997, Emissions of volatile and semi–volatile organic compounds and particulate matter from hot asphalts, *ENVIRONMENTAL TECHNOLOGY*, **18**, 121–138.
- 26.– Tadepalli S. and Synolakis, C.E., 1996, Model for the Leading Waves of Tsunamis, *PHYSICAL REVIEW LETTERS*, **77** (10), 2141–2144.
- 25.– Zhou Z., Synolakis, C.E., Leahy, R.M., Song S.M., 1995, Calculation of 3D Internal Displacement Fields from 3D X–ray Computer Tomographic Images, *PROCEEDINGS OF THE ROYAL SOCIETY, LONDON, SERIES A*, **449**, 537–554.
- 24.– Briggs, M.J., Synolakis, C.E., Harkins, G.S., Green, D.R. 1995, Laboratory Experiments of Tsunami Runup on a Circular Island, *PURE AND APPLIED GEOPHYSICS*, **144**, 3/4, 569–593.
- 23.– Titov, V.V., and Synolakis C.E., 1995, Modeling of Breaking and Nonbreaking Long–Wave Evolution and Runup Using VTCS–2. *JOURNAL OF WATERWAY, PORT, COASTAL, AND OCEAN ENGINEERING*, ASCE, **121**, 6, 308–316.
- 22.– Tsuji, Y., Imamura, F., Matsutomi, S., Synolakis C.E., and six others, 1995, Field Survey of the East Java Earthquake and Tsunami of June 3, 1994, *PURE AND APPLIED GEOPHYSICS*, **144**, 3/4, 839–854.
- 21.– Imamura, F., Synolakis, C.E., Gica, E., Titov, V., Listanco, E., and Lee, H.J. 1995, Field Survey of the 1994 Mindoro Island, Philippines Tsunami *PURE AND APPLIED GEOPHYSICS*, **144**, 3/4, 875–890.
- 20.– Synolakis, C.E., 1995, Tsunami Prediction. *SCIENCE*, **270**, 15–16.
- 19.– Liu, P.L–F, Cho, Y–C., Briggs, M., Kânoğlu, U., Synolakis, C.E, 1995, Runup of solitary waves on a circular island, *JOURNAL OF FLUID MECHANICS*, **302**, pp. 259–285.
- 18.– Tadepalli, S. and Synolakis, C.E., 1994, The Runup of N–waves on Sloping Beaches. *PROCEEDINGS OF THE ROYAL SOCIETY, LONDON, SERIES A*, **445**, pp. 99–112.
- 17.– Yeh H., Liu, P.L–F., Briggs M., and Synolakis, C.E., 1994, Tsunami amplification in coastal boundaries, *NATURE*, **372**, 353–355.
- 16.– Synolakis, C.E., Imamura, F., Tsuji, Y., Matsutomi, H., Tinti, S., Cook, B., Chandra, Y.P. and Ushman, M. 1995, Damage, Conditions of East Java tsunami of 1994 Analyzed, *EOS, TRANSACTIONS, AMERICAN GEOPHYSICAL UNION*, **76**, (26), 257 and 261–262.
- 15.– Tadepalli, S. and Synolakis, C.E., 1994, Roots of  $f(z) = J_\gamma(z) \pm iJ_{\gamma+1}(z)$  and the Evaluation of Integrals with Cylindrical Function Kernels. *QUARTERLY OF APPLIED MATHEMATICS*, **LII**, (1), 103–112.
- 14.– Synolakis, C.E. and Skjelbreia, E.J., 1993, Evolution of the maximum amplitude of solitary waves on plane beaches. *JOURNAL OF WATERWAY, PORT, COASTAL AND OCEAN ENGINEERING*, ASCE, **118**, (3), 252–266.
- 13.– Yeh, H., Imamura, F., Synolakis, C.E., Tsuji, Y., Liu, P., and Shi., S., 1993, The Flores Island Tsunamis, *EOS, TRANSACTIONS, AMERICAN GEOPHYSICAL UNION*, **74**, (33), 369, 371–373.(EOS Cover Article.)

- 12.– Brewell, B. D., Tegulapalle, M. , Ho C–M., and Synolakis, C.E., 1992, Passive control of delta wing rock. *JOURNAL OF AIRCRAFT*, AIAA, **30**, (1), 131–133.
- 11.– Liu, P.L–F., Synolakis, C.E., Yeh, H., 1991, Report on the First International Workshop on Long Wave Runup. *JOURNAL OF FLUID MECHANICS*, **229**, 675–688.
- 10.– Synolakis, C.E., 1991, Tsunami Runup on Steep Slopes. How Good Linear Theory Really Is. *NATURAL HAZARDS*, **4**, 221–234.
- 9.– Synolakis, C.E., 1991, Green’s law and the evolution of solitary waves. *PHYSICS OF FLUIDS A*, **3**, (3), 490–491.
- 8.– Synolakis, C.E., 1990, Generation of Long Waves in the Laboratory. *JOURNAL OF WATERWAYS, PORTS, COASTAL AND OCEAN ENGINEERING*, ASCE, **116**, (2), 252–266.
- 7.– Synolakis, C.E., 1989, Determination of the hydrodynamic force on an accelerating plate in a fluid with a free surface. *JOURNAL OF ENGINEERING MECHANICS*, ASCE, **115**, (11), pp. 2480–2492.
- 6.– Synolakis, C.E., 1989, Discussion on Wave Reflection and Runup on Rough slopes, by Kobayashi et al. *JOURNAL OF WATERWAYS, PORTS, COASTAL AND OCEAN ENGINEERING*, ASCE, **115**, (1), 139–143.
- 5.– Synolakis, C.E. and Badeer, H.S., 1989, On combining the Bernoulli and Poiseuille equations. *AMERICAN JOURNAL OF PHYSICS*, **57**, (11), pp. 1013–1019.
- 4.– Badeer, H.S. and Synolakis, C.E., 1989, The Bernoulli and Poiseuille equations. *THE PHYSICS TEACHER*, **27**, 598–601.
- 3.– Synolakis, C.E., Deb, M.K. and Skjelbreia, E.J., 1988, The anomalous behavior of the runup of cnoidal waves. *PHYSICS OF FLUIDS*, **31**, 3–5.
- 2.– Synolakis, C.E., 1988, On the roots of  $f(z) = J_0(z) - iJ_1(z)$ . *QUARTERLY OF APPLIED MATHEMATICS*, **XLVI**, (1), 105–107.
- 1.– Synolakis, C.E., 1987, The runup of solitary waves. *JOURNAL OF FLUID MECHANICS*, **185**, 523–545.

## 5 BOOKS AND EDITED VOLUMES

- 6.– *Theme Issue : Tsunamis: bridging science, engineering and society*, Kânoğlu, U., Titov V., Bernard, E., Synolakis, C. (eds) 2015, in *Philosophical Transactions A* **383** (2053), ISSN 1364-503X.
- 5.– *Advanced numerical modeling for simulating tsunami waves and runup* Liu, P.L–F., Yeh, H., and Synolakis C.E. (eds), 2008, in *Advances in Coastal and Ocean Engineering* **10**, World Scientific, Singapore, 405pp, ISBN: 978-981-270-012-4.
- 4.– *Submarine Landslides and Tsunamis*, by Yalciner, A.C., Pelinofsky, E., Okal, E.A., & Synolakis, C.E., (eds), 2003, in *NATO Science Series, Earth and Environmental Sciences*, **21**, Springer, 355pp, now available on KINDLE, ASIN: B001GS75YY.
- 3.– *Landslide Tsunamis : Recent Findings and Research Directions*, Bardet, J.P., Synolakis, C.E., Davies, H., Imamura, F., & Okal, E.A. (eds), 2004, Pure and Applied Geophysics Topical Issue, Birkhauser, Basel, 435pp. ISBN-10: 376436033X.
- 2.– *Furious Earth : The Science of Earthquakes, Volcanoes and Tsunamis*, by Hutton, K., Synolakis, C.E & Williams, S., 1999, McGraw Hill, 235pp, ISBN 0–07–135161–2.
- 1.– *Long Wave Runup Models*, 1997, Yeh H., Liu, P.L.–F., & Synolakis, C.E. , World Scientific, Singapore, 405pp, ISBN-10: 9810229097.

## 6 CHAPTERS IN BOOKS AND PEER–REVIEWED PROCEEDINGS

- 55.– Maravelakis, N., Kalligeris, N., Lynett, P., Synolakis, C., 2017, Case Study of Small Harbor Excitation under Storm Conditions, *Ports 2016: Port Engineering*, 647–656.



- 54.– Karagiannis, G.M. and Synolakis, C.E., 2016, Collaborative incident planning and the common operational picture. In: Pardalos, P., Nagurney, A. Kotsireas, I. (eds.), Dynamics of Disasters. *Springer Proceedings in Mathematics & Statistics* **185**, 91–112.
- 53.– Paravolidakis, V., Moirogiorgou, K. Ragia, L., Zervakis, M., Synolakis, C., 2016, COAST-LINE EXTRACTION FROM AERIAL IMAGES BASED ON EDGE DETECTION, *International Archives of the Photogrammetry Remote Sensing and Spatial Information Sciences* **3** (8), 153–158.
- 52.– Karagiannis, G.M. and Synolakis, C.E., 2016, Tsunami Disaster Risk Management in Greece. *ASCE Coastal Structures and Solutions to Coastal Disasters Joint Conference*, 2015, Boston, Massachusetts, *in press*.
- 51.– Kânoğlu U., and Synolakis, C.E., 2015, Tsunami Dynamics, Forecasting, and Mitigation, in Coastal and Marine Hazards, Risks, and Disasters, Ellis, J.T. and Sherman, D.J. (Eds), 15–49, <http://dx.doi.org/10.1016/B978-0-12-396483-0.00002-9>.
- 50.– Karagiannis, G.M. and Synolakis, C.E., 2014, Using risk analysis and hazard numerical simulation models to support the design, conduct and evaluation of disaster exercises, in *5th International Disaster and Risk Conference*, Davos, Switzerland, ISBN: 978-3-033-04701-3.
- 49.– Karagiannis, G.M., Saini, K.S. and Synolakis, C.E., 2014. Lessons from the first European Union tsunami simulation exercise, in *Proceedings of The International Emergency Management Society USA Conference*, Hattiesburg, Mississippi, USA, ISBN: 9789490297107.
- 48.– Ewing, L., Synolakis, C.E., 2012, Resilience to extreme events, *Coastal Engineering 2010*, Proceedings of the 33rd International Conference on Coastal Engineering (ICCE) Hamburg, ISSN: 2156-10284065-4077.
- 47.– Fritz, H..M., Synolakis, C.E., and sixteen others, 2011, Observations and Modeling of the 27 February 2010 Tsunami in Chile, *Solutions to Coastal Disasters 2011*, ASCE, 331–342.
- 46.– Ewing L., and Synolakis C.E., 2011, Coastal Resilience: Can We Get Beyond Planning the Last Disaster?, *Solutions to Coastal Disasters 2011*, 936–947, [dx.doi.org/10.1061/41185\(417\)79](http://dx.doi.org/10.1061/41185(417)79).
- 45.– Synolakis, C., Kalligeris, N., Flouri, E., Alexandrakis, G., Kampanis N., 2011, The Great Cretan Splash Up-A Coastal Disaster Preparedness Exercise in Greece. *Solutions to Coastal Disasters 2011*, ASCE, 396-407, [http://dx.doi.org/10.1061/41185\(417\)35](http://dx.doi.org/10.1061/41185(417)35).
- 44.– Ewing L. and Synolakis C.E., 2010, Community Resilience : Lessons from recent disasters, *Coastal Engineering 2010*, Proceedings of the 32nd International Conference on Coastal Engineering (ICCE), Shanghai, China, ISSN: 2156–1028, World Scientific, Singapore, 1–12.
- 43.– Synolakis, C.E.& Kânoğlu, U., 2009, Development of benchmarked models, in *The Sea*, Bernard, E.N. & Robertson, A.(eds), Harvard University Press, Cambridge, MA, 237–292.
- 42.– Liu, P.L–F., Yeh, H., & Synolakis C.E., 2008, Benchmark problems in, 3rd International Workshop on Long-Wave Runup Models, Wrigley Marine Sci Ctr, Catalina, CA, in *Advances in Coastal and Ocean Engineering*, **10**, 223–230, doi 978-981-270-012-4.
- 41.– Yalciner A.C, Imamura F., & Synolakis C.E., 2008, Amplitude evolution and runup of long waves : comparison of experimental and numerical data on a 3-D complex topography, 3rd International Workshop on Long-Wave Runup Models, Wrigley Marine Sci Ctr, Catalina, CA, in *Advances in Coastal and Ocean Engineering*, **10**, 243–247, doi 978-981-270-012-4.
- 40.– Ewing, L., Synolakis, C., Kalligeris, N., Foteinis, S., Voukouvalas, E., 2008, The role of regional sediment transport in coastal zone management, *Coastal Engineering 2008*, Proceedings of the 31st International Conference on Coastal Engineering (ICCE) Hamburg, (doi 10.1142/9789814277426\_0337), World Scientific, Singapore, 4065-4077.
- 39.– Uslu, B., Borrero, J.C., Dengler, L., Synolakis, C.E., Barberopouloy A., 2008, Tsunami Inundation from Great Earthquakes on the Cascadia Subduction Zone, Along the Northern California Coast, in *Solutions to Coastal Disasters 2008*, Proceedings of the American Society of Civil Engineers, Ed: L. Wallendorf and L. Ewing, 204–213.
- 38.– Synolakis, C., N. Kalligeris, S. Foteinis, E., Voukouvalas, 2008, The Plight of the Beaches of Crete, in *Solutions to Coastal Disasters 2008*, Proceedings of the American Society of Civil Engineers, Ed: L. Wallendorf and L. Ewing, (doi 10.1061/40968(312)45), 495–496.
- 37.– Synolakis, C.E. & Kânoğlu, U., 2008, Tsunami hydrodynamic modeling : standards and guidelines, *Nonlinear Wave Dynamics*, 127–145, 831044170082853.

- 36.– Borrero, J., B. Uslu, C. Synolakis, and V.V. Titov, 2007, Modeling far-field tsunamis for California ports and harbors. In *Coastal Engineering 2006*, Proceedings of the 30th International Conference, San Diego, CA, 1566–1578.
- 35.– Synolakis, C.E., J.C. Borrero, H. Fritz, V.V. Titov, and E. Okal, 2007, Inundation during the 26 December 2004 tsunami, in *Coastal Engineering 2006*, Proceedings of the 30th International Conference on Coastal Engineering (ICCE) San Diego, California, Word Scientific, Singapore 1625–1637.
- 34.– Synolakis, C.E., and E.A. Okal, 1992–2002, 2007, Perspective on a decade of post-tsunami surveys, in: Tsunamis: Case studies and recent developments, ed. by K. Satake, *Adv. Natur. Technol. Hazards*, **23** 1–30.
- 33.– Borrero, J.C., Cho, S., Moore, J.C., Synolakis, C.E., 2005, The Regional Economic Cost of a Tsunami Wave Generated by a Submarine Landslide off Palos Verdes, California, in *Infrastructure Risk Management Processes: Natural, Accidental, and Deliberate Hazards*, Taylor and VanMarcke (eds.) Proc. ASCE, (ISBN 0784408), 67–95.
- 32.– Fritz, H.M., C.E. Synolakis, 2005, Field survey of the Indian Ocean tsunami in the Maldives, in *Waves 2005. Proc. 5th COPRI International Conference on Ocean Wave Measurement and Analysis, Madrid, Spain, Eds. B.L. Edge and J.C. Santos*.
- 31.– Synolakis, C.E., Fritz, H.M., Titov, V.V., 2005, Field Survey of the Indian Ocean Tsunami on Sri Lanka's South Coast, *Waves 2005, Proc. 5th COPRI International Conference on Ocean Wave Measurement and Analysis*, Madrid, Spain Eds, B.L. Edge and J.C. Santos.
- 30.– Raichlen, F. and Synolakis, C.E., 2003, Runup from three dimensional sliding mass, Long Waves Symposium, Briggs, M., Koutitas .Ch. (Eds). (ISBN 960243-593-ı̇œ3), 247–256.
- 29.– Borrero J.C., Yalciner, A.C., Kânoğlu, U., Titov, V., McCarthy, D., Synolakis, C.E., 2003, Producing tsunami inundation maps in California, in Submarine landslides and tsunamis, Yalciner A. et al, (Eds), Kluwer Academic Publishers, Dordrecht, 315–329.
- 28.– Synolakis, C.E., 2003, Tsunami and Seiche, in *Earthquake Engineering Handbook*, edited by Chen, W–F and Scawthorn, C., *CRC Press*, 9–1–9–90.
- 27.– Okal, E.A., Borrero, J.C., Synolakis, C.E., 2002, Solving the puzzle of the 1998 Papua New Guinea tsunami: the case for the slump *Solutions to Coastal Disasters*, Ed: L. Wallendorf and L. Ewing, ISBN 0-7844-0605-7, Proc. ASCE, 863–877.
- 26.– Synolakis, C.E., Yacliner, A.C., Borrero, J.C., Plafker, G. 2002, Modeling of the November 3, 1994 Skagway, Alaska tsunami, *Solutions to Coastal Disasters*, Ed: L. Wallendorf and L. Ewing, ISBN 0-7844-0605-7, doi 10.1061/40605(258)78, Proc. ASCE, 915–927
- 25.– Synolakis, C.E., Borrero, J.C., Eisner, R., 2002, Developing inundation maps for Southern California, *Solutions to Coastal Disasters*, Ed: L. Wallendorf and L. Ewing, ISBN 0-7844-0605-7, doi 10.1061/40605(258)73, Proc. ASCE, 848–862.
- 24.– Eisner, R., K., Borrero, J.C., Synolakis, C.E., 2001, Inundation maps for the State of California, *Proceedings International Tsunami Symposium, ITS–2001*, 55–68, published by NOAA–PMEL, Seattle, Washington. (Also available from [www.pmel.noaa.gov/its2001](http://www.pmel.noaa.gov/its2001).)
- 23.– Synolakis, C.E., 1999, Exact Solutions of the Shallow Water Wave Equations, *Advances in Coastal Engineering*, **4**, World Scientific, Singapore, ISBN-10: 9810233108.
- 22.– Synolakis, C.E., McCarthy, D., Titov, V.V, Borrero, J., 1997, Evaluating tsunami risk in California, *California and the World Oceans 97*, Proc. ASCE, San Diego, California, 1225–1236, ASCE, NY.
- 21.– Tadepalli, S. and Synolakis, C.E., 1996, A realistic model for the 1992–1996 tidal waves in *Coastal Engineering 1996*, Proceedings of the 25th International Conference on Coastal Engineering (ICCE), Orlando, Florida, , Orlando, Florida, 1478–1490.
- 20.– Kânoğlu, U. and Synolakis, C.E., 1996, Long wave runup on coastal structures, in *Coastal Engineering 1996*, Proceedings of the 25th International Conference on Coastal Engineering (ICCE) San Orlando, Florida, 1452–1464, ASCE, NY.
- 19.– Synolakis, C.E., and Imamura, F., 1995, The November 12, 1994 Mindoro Tsunami, *Proc. Joint US/Japan Wind and Wave Engineering Symposium*, Berkeley, California, Smith, C.E. (ed), Minerals Management Service, US Dept. of Interior.

- 18.– Briggs, M.J., Synolakis, C.E., Harkins, G.S., Green, D., 1996, Runup of Solitary waves on a Circular island, in *Long Wave Runup Models*, Yeh H., et al (ed) 375–383, World Scientific, Singapore.
- 17.– Titov, V.V. and Synolakis, C.E., 1996, Numerical modeling of long wave runup using VTCS–3, in *Long Wave Runup Models*, Yeh H., et al (ed), 242–248, World Scientific, Singapore.
- 16.– Kânoğlu, U. and Synolakis, C.E., 1996, Analytic Solutions of Solitary Wave Runup on a Conical island and on the Revere beach, in *Long Wave Runup Models*, Yeh H., et al (ed) 214–220, World Scientific, Singapore.
- 15.– Briggs, M.J., Synolakis, C.E., Harkins, G.S., Hughes, S.A., 1995, Large Scale Three Dimensional Experiments of Tsunami Indundation, in *Tsunami : Progress in Prediction, Disaster prevention and Warning*, Tsuchiya Y. and Shuto, N. (eds), 129–149. This is Volume 4, of the *Series of Advances in Natural and Technological Standards*, Kluwer Academic Publishers, Boston.
- 14.– Synolakis, C.E., Zhou, Z., Leahy, R.E., Masri, S.F., 1994, A transducer for determining internal deformations using X–ray computer tomography, *Proceedings 1st World Congress on Structural Control*, Dept. of Civil Engineering, USC, Vol. 1, WA13–22, ISBN 0–9628908–3–9, Los Angeles, California.
- 13.– Briggs, M.J., Synolakis, C.E. and Harkins, G.S., 1994, Tsunami runup on a conical island, in *Proc. International Symposium WAVES – PHYSICAL AND NUMERICAL MODELING*, M. Isaacson (ed), 446–456 Dept. of Civil Engineering, University of British Columbia, Vancouver, BC, OCLC 646846515.
- 12.– Titov, V.V. and Synolakis, C.E., 1993, A numerical study of the 9/1/92 Nicaraguan Tsunami, in *Proceedings of the IUGG/IOC International Tsunami Symposium*, Wakayama, Japan. Proceedings published by the Japan Society of Civil Engineers, 627–636.
- 11.– Tadepalli, S. and Synolakis, C.E., 1993, The runup of dipole waves, *Proceedings of the IUGG/IOC International Tsunami Symposium*, Wakayama, Japan. Proceedings published by the Japan Society of Civil Engineers, 175–187.
- 10.– Leahy, R.E., Zhou, Z., Synolakis, C.E., Song, S.M., 1993, Three dimensional multi–resolution motion estimation for incompressible continuous media, *Proceedings 1993 International Conference Neural Networks and Signal Processing*, Guangzhou, China, 875–880.
- 9.– Briggs, M.J., Synolakis, C.E. and Hughes, S.A., 1993, Laboratory measurements of 3-D tsunami runup. *Proceedings of the IUGG/IOC International Tsunami Symposium*, Wakayama, Japan. Proceedings publ. by the Japan Society of Civil Engineers, 585–598.
- 8.– Synolakis, C.E., Papanicolaou P., Hodge, D., Mercurief, P., 1993, The maximum height of rise of asymmetric buoyant jets in stratified fluids, *NATO Advanced Workshop on Turbulent Jets, Oporto, Portugal* (INVITED PAPER – peer reviewed short paper, but full–length paper never sent in final form anticipating journal publication )
- 7.– Agbabian, M.S., Abdel–Ghaffar, A.M., Leahy, R.E., Zhou A., Synolakis, C.E., 1992, The development of a quantitative concrete core tomography protocol for the design of concrete mixes, in *Proceedings of the 10th World Conference on Earthquake Engineering*, ASCE, A.A. Balkema, Rotterdam, 2749–2754, SBN: 90-5410-060-5.
- 6.– Abdel–Ghaffar, A.M., Leahy, R.M., Masri, S.F., Synolakis, C.E., 1992, A feasibility study fo a Concrete Core Tomographer, in *Nondestructive Testing of Concrete Elements and Structures*, Proceedings ASCE, San Antonio, Texas, 37–48, ISBN 0-87262-887-6.
- 5.– Ruscher, Cristophe and Synolakis, C.E., 1992, Asymptotic solutions for the reflection of solitary waves off plane beaches. *23rd International Conference on Coastal Engineering, Venice, Italy Proceedings ASCE*, . (Two–page extended abstract).
- 4.– Synolakis, C.E., 1988, Are solitary waves the limiting waves in long wave runup ?, *21st International Conference on Coastal Engineering*, Proceedings ASCE, Torremolinos, Spain.
- 3.– Deb, M.K. and Synolakis, C.E., 1988, On the maximum runup of cnoidal waves, *21st International Conference on Coastal Engineering*, Proceedings ASCE, Torremolinos, Spain.
- 2.– Synolakis, C.E., 1987, The runup and reflection of solitary waves, *Coastal Hydrodynamics*, Proceedings ASCE, Newark, Delaware, 533–547.

1.– Synolakis, C.E. and Raichlen, F.R., 1984, The generation of arbitrary waves in the laboratory. *19th International Conference on Coastal Engineering, Proceedings ASCE*, Houston, Texas. (Two–page extended abstract).

## 7 RESEARCH STUDIES AND REPORTS

8.– The SAFRR Tsunami Modeling Group, 2013, Numerical Modeling of Tsunami Effects in Southern California from a Hypothetical M9.1 Earthquake near the Alaska Peninsula, *The SAFRR (Science Application for Risk Reduction) Tsunami Scenario*: U.S. Geological Survey Open-File Report 2013?1170, 136 p., <http://pubs.usgs.gov/of/2013/1170/d/>.

7.– Committee on the Review of the Tsunami Warning and Forecast System and Overview of the Nation’s Tsunami Preparedness; Ocean Studies Board; Division on Earth and Life Studies; National Research Council, 2011, *Tsunami Warning and Preparedness: An Assessment of the U.S. Tsunami Program and the Nation’s Preparedness Efforts*, National Academies Press, Washington, D.C., 296pp, ISBN: 978-0-309-13753-9, DOI: 10.17226/12628.

6.– Gonzalez, F.I., E. Bernard, P. Dunbar, E. Geist, B. Jaffe, U. Kangoglu, J. Locat, H. Mofjeld, A. Moore, C. Synolakis, V. Titov, and R. Weiss (Science Review Working Group), 2007, *Scientific and technical issues in tsunami hazard assessment of nuclear power plant sites*. National Oceanic and Atmospheric Administration Technical Memorandum, OAR PMEL-136, NTIS: PB2008-101460, NOAA, Pacific Marine Environmental Laboratory, Seattle, WA, 125 pp.

5.– Synolakis, C.E., E.N. Bernard, V.V. Titov, U. Kânoğlu, and F.I. Gonzalez, 2007, *Standards, criteria, and procedures for NOAA evaluation of tsunami numerical models*. National Oceanic and Atmospheric Administration Technical Memorandum, OAR PMEL-135, NTIS: PB2007-109601, NOAA, Pacific Marine Environmental Laboratory, Seattle, WA, 55 pp.

4.– Tsunami Pilot Study Working Group, 2006, Seaside, Oregon Tsunami Pilot Study - modernization of FEMA flood hazard maps, United States Geological Survey Open-File Report 2006-1234, <http://pubs.er.usgs.gov/publication/ofr20061234>, 164pp.

3.– Pirbazari M. and Synolakis, C.E., 1993–1996, Emission of organic pollutants from asphalt, Research Contract Reports S-C 93081. Southern California Air Quality Management District, Diamond Bar, CA (about 700 pages in three volumes.)

2.– Agbabian, M, Abdel-Ghaffar, A., Anderson, J., Masri S., Wellford, C., and Synolakis, C. 1994, Volumes 1-4 Innovative testing methods for reinforced concrete structures. FINAL REPORT. Department of Civil Engineering, USC, Los Angeles, CA (about 2200 pages).

1.– Synolakis, C.E., Chang V., Yen, D. Leahy, R. Singh, M., 1989–1990, Quarterly Progress Report, Volumes 1–8, Asphalt Research Program, Department of Civil Engineering University of Southern California, Los Angeles, CA (about 1200 pages).

## 8 ABSTRACTS IN CONFERENCES PROCEEDINGS

198.– Okal, E.A. and Synolakis C., 2017, Tsunamis obey Snell’s Law: Simulations and Real Data, EGU2017-2328, EGU2015-8773, *European Geosciences Union General Assembly*, Vienna, Austria, 23–28 April 2017.

197.– Howell, A., England, P., Jackson, J., and Synolakis, C.E., 2015, Kinematics of the Hellenic Trench System from Earthquake Seismology and Field Observations, *Fall Meeting, American Geophysical Union*, San Francisco, California, T31B–2887.

196.– Ewing, L. and Synolakis, C.E., 2015, Resilience of Shore Protection Efforts During Disasters and Routine Conditions, *Coastal Disasters, American Society of Civil Engineers*, Boston, Massachusetts.

195.– Karagiannis, G.M. and Synolakis, C.E., 2015, Tsunami Disaster Risk Management Capabilities in Greece, *Coastal Disasters, American Society of Civil Engineers*, Boston, Massachusetts.

194.– Karagiannis, G.M. and Synolakis, C.E., 2015, Perception or reality? A common operational picture for enhancing situational awareness and decision–making in disasters, *SafeChania 2015*, Chania, Greece.

- 193.– Karagiannis, G.M. and Synolakis, C.E., 2015, Tsunami disaster risk management capabilities in Greece. *Geophysical Research Abstracts*, 17(2015), *European Geophysical Union General Assembly 2015*, Vienna, Austria, EGU2015-12463-1.
- 192.– Karagiannis, G.M. and Synolakis, C.E., 2015. Using Social Media to manage Disaster Volunteers in Greece, *International Crisis and Risk Communication (ICRC) Conference*, Orlando, Florida, USA.
- 191.– Karagiannis, G.M. and Synolakis, C.E., 2015, Tsunami Disaster Risk Management Capabilities in Greece, *Coastal Disasters - ASCE*, Boston, Massachusetts.
- 190.– Okal, E.A. and Synolakis, C.E., 2015, Sequencing of tsunami waves: Why the first wave is not always the largest, EGU2015-7622, *European Geosciences Union General Assembly*, Vienna, Austria, 12–17 2015.
- 189.– Kânoğlu, U., and Synolakis, C.E., 2015, Fukushima nuclear power plant accident was preventable, EGU2015-8773, *European Geosciences Union General Assembly*, Vienna, Austria, 12–17 2015.
- 188.– Kânoğlu, U., Sharghivand, N., Kalligeris, N., Flouri, E., Hoto, O., Dougalis, V.A., Synolakis, C.E., 2014, Capacity building in tsunami modeling for the Aegean Sea Shorelines, P2E1, *International Conference on Coastal Engineering, ICCE2014*, Seoul, South Korea.
- 187.– Kazolea, M., Delis, A., Synolakis, C.E., 2014, TUCWAVE code for the Boussinesq-type equations, A55, *International Conference on Coastal Engineering, ICCE2014*, Seoul, South Korea.
- 186.– Maravelakis, N. Kalligeris, N., Lynett, P., and Synolakis, C.E., 2014, Wave amplification studies of the Venetian harbor of Chania, Crete; Field measurements and numerical modeling, B62, *International Conference on Coastal Engineering, ICCE2014*, Seoul, South Korea.
- 185.– Skanavis, V., Foteinis, S., Sartzetakis, G., Papadogianis, C., Synolakis, C., 2014, Erosion of the beaches of Crete, OS23B–1195, *Fall Meeting, American Geophysical Union*, San Francisco, California.
- 184.– Fritz H.M. et al., 2014, Tohoku tsunami runup hydrographs, ship tracks, upriver and overland flow velocities based on video, LiDAR and AIS measurements, S13E-082011, *Fall Meeting, American Geophysical Union*, San Francisco, California.
- 183.– Synolakis, C.E., 2014, Lessons Learned and Unlearned from the 2004 Great Sumatran Tsunami, S13E–03 *Invited*, presented at the *American Geophysical Union*, San Francisco, California.
- 182.– Synolakis, C.E., 2014, When tsunamology and geophysics clash, throw geophysics in the trash (Sergey Soloviev Medal Lecture) EGU2014–16538, *European Geosciences Union General Assembly*, Vienna, Austria, 27 April –2 May 2014.
- 181.– Skanavis, V., Maravelakis, N., Kalligeris, Papadogiannis, C., Sartzetakis, G., Voukouvalas, V., Synolakis, C., 2014, Coastal retreat in Chanea, Greece, EGU2014–15408, *European Geosciences Union General Assembly*, Vienna, Austria, 27 April–2 May 2014.
- 180.– Valle, B., Kalligeris, N., Findikakis, A., Okal, E., Synolakis, C., 2013, Tsunami simulations for historical and plausible mega-thrust events originating in the Eastern Mediterranean Sea, GU2013-12829, *European Geosciences Union General Assembly*, Vienna, Austria.
- 179.– Fritz, H. M., Phillips, D.A., Okayasu, Ak., Shimozono, T., Liu, H., Takeda, S., Mohammed, F., Skanavis, V., Synolakis, C.E., Takahashi, T., 2013, 2011 Tohoku tsunami hydrographs, currents, flow velocities and ship tracks based on video and TLS measurements, EGU2013-12732, *European Geosciences Union General Assembly*, Vienna, Austria.
- 178.–Kânoğlu, U., Titov, V., Aydın, B., Moore, C., Stefanakis, T., Synolakis, C., 2013, Focusing of N-waves: A Possible Mechanism for Amplified Run-up, EGU2013-12235, *European Geosciences Union General Assembly*, Vienna, Austria.
- 177.– Stefanakis, T., Contal, E., Vayatis, N., Dias, F., Synolakis, C., 2013, Can Small Islands Protect Nearby Coasts From Tsunamis? An Active Experimental Design Approach, Abstract EGU2013-11314, *European Geosciences Union General Assembly*, Vienna, Austria.
- 176.– Foteinis, S., Skanavis, V., Maravelakis, N., Kalligeris, N., Sartzetakis, G., Voukouvalas, V., Koutsogianaki, I., Synolakis, C., 2013, Anthropogenic Erosion in Aghios Nikolaos, Greece, *European Geosciences Union General Assembly*, EGU2013–9387 Vienna, Austria.

- 175.– Fritz, H.M., D.A. Phillips, A. Okayasu, T. Shimozono, H. Liu, S. Takeda, F. Mohammed, V. Skanavis, C.E. Synolakis, and T. Takahashi, 2013, 2011 Japan tsunami video and LiDAR based measurements: hydrographs, currents, inundation flow velocities, and ship tracks, 2nd International Conference Caribbean Waves, Gosier, Guadeloupe, French West Indies, 22–25 January 2013. (invited)
- 174.– Kazolea, M., Delis A.I., and C.E. Synolakis, 2012, Finite Volume Techniques for Boussinesq type modelling , 1st International Conference on Frontiers in Computational Physics: Modelling the Earth System, Boulder, Colorado.
- 173.– Fritz, H.M., D.A. Phillips, A. Okayasu, T. Shimozono, H. Liu, F. Mohammed, V. Skanavis, C.E. Synolakis, and T. Takahashi, 2012, 2011 Japan tsunami measurements from videos recorded by survivors at evacuation sites using LiDAR, Abstract OS07–17–A007 presented at AOGS-AGU (WPGM) Joint Assembly 2012, Singapore, 13–17 August 2012. (invited)
- 172.– Fritz, H.M., D.A. Phillips, A. Okayasu, T. Shimozono, H. Liu, F. Mo-hammed, V. Skanavis, C.E. Synolakis, and T. Takahashi, 2012, 2011 Japan tsunami observations and inundation velocity measurements from survivor videos using LiDAR, Abstract AvH8-46 presented at EGU Topical Conference Series, 8th Alexander von Humboldt International Conference: Natural Disasters, Global Change, and the Preservation of World Heritage Sites, Cusco, Peru, 12–16 November 2012.
- 171.– Valle, B.L., Kalligeris, N., Okal, E., Findikakis, A.N., Synolakis, C.E., 2012, Tsunami simulations for plausible mega-thrust events originating along the Hellenic Arc and Cyprian Arc in the Eastern Mediterranean Sea, Abstract NH33A-1668, *Fall Meeting, American Geophysical Union*, San Francisco, CA.
- 170.– Fritz, H.M., D.A. Phillips, A. Okayasu, T. Shimozono, H. Liu, S. Takeda, F. Mohammed, V. Skanavis, C.E. Synolakis, and T. Takahashi, 2012, 2011 Tohoku tsunami video and TLS based measurements: hydrographs, currents, inundation flow velocities, and ship tracks, Abstract NH43B–1659 *Fall Meeting, American Geophysical Union*, San Francisco, CA.
- 169.– Kanoglu, U., Hoto, O., Kalligeris, N., Flouri, E., Aydin, B., Moore, C. W. and Synolakis, C.E., 2012, Tsunami Propagation Database for the Mediterranean and Aegean Seas, Abstract NH33A-1666, *Fall Meeting, American Geophysical Union*, San Francisco, CA.
- 168.– Okal, E., Flouri, E., Mitsoudis, D. and Synolakis, C.E., 2012, Tsunami Risk and Vulnerability Analysis for the City of Rhodes, *European Geosciences Union, General Assembly*, Vienna, Austria, 2012AGUFMNH21C1604O.
- 167.– O’Shay, J.; Weiss, R.; Synolakis, C. E., 2012, How long are submarine landslides coupled to the water column? *European Geosciences Union, General Assembly*, Vienna, Austria, 2012EGUGA.1412822O.
- 166.– Eberling, Okal, E.A., Kalligeris, N., Synolakis, C.E. , 2012, Modern seismological re-assessment and tsunami simulation of historical Hellenic Arc earthquakes, *European Geosciences Union, General Assembly*, Vienna, Austria, EGU2012–11809.
- 165.– Kalligeris, N., Flouri E., Okal, E., Synolakis, C., 2012, The AD 365 earthquake: high resolution tsunami inundation for Crete and full scale simulation exercise, *2012 European Geosciences Union, General Assembly*, Vienna, Austria, EGU2012–11787.
- 164.– Yalciner, A. and 10 others, 2012, Field survey of the coastal impact of the March 11, 2011 great East Japan tsunami (2012), *2012 European Geosciences Union, General Assembly*, Vienna, Austria, EGU2012–11588.
- 163.– Fritz H.M and 8 others, 2012, Japan tsunami survivor video based hydrograph and flow velocity measurements using LiDAR, Presented at the European Geosciences Union, General Assembly, Vienna, Austria, EGU2012–13168.
- 162.– Borrero, J.C., H.M. Fritz, B. Suwagardi, L. Linlin, Q. Qiang, I.R. Pranantyo, V. Skanavis, C.E. Synolakis, 2011, Field survey and numerical modeling of the 25 October 2010 Mentawai Islands Tsunami in Indonesia. IUGG, Melbourne, Australia, 28 June–7 July, 2011.
- 161.– Fritz, H.M. and 7 others, 2011, Reconnaissance of the 25 October 2010 Mentawai Islands Tsunami in Indonesia, *European Geosciences Union, General Assembly*, Vienna, Austria, EGU2011–9512.

- 160.– Synolakis, C.E., and 10 others, 2011, The Chile tsunami of 27 February 2010: Field survey and modeling, *European Geosciences Union, General Assembly*, Vienna, Austria, EGU2011–12772.
- 159.– Fritz, H.M and 8 others, 2011, 2011 Japan tsunami current and flow velocity measurements from survivor videos using LiDAR, *Fall Meeting, American Geophysical Union*, San Francisco, California, NH13G–05.
- 158.– Synolakis, C.E., and 10 others, 2011, The POSEIDON multi-platform observatory of the Eastern Mediterranean: from regional to global long-term sustained ocean observations, *Fall Meeting, American Geophysical Union*, San Francisco, California, OS31B–04.
- 157.– Fritz, H.M. and 14 others, 2011, The Chile tsunami of 27 February 2010: Field survey and modeling , (*Invited*), *Fall Meeting, American Geophysical Union*, San Francisco, California, S14A–03.
- 156.– Yalciner, A.C and 11 others, 2011, Field Survey on The Coastal Impacts of March 11, 2011 Great East Japan Tsunami, *Fall Meeting, American Geophysical Union*, San Francisco, California, NH11A–1360.
- 155.– Wilson R.I and 10 others, 2011, Comparison of Strong Currents and Impacts on the California (USA) Maritime Communities from the 2010 Chile and 2011 Japan Teletsunamis, *Fall Meeting, AGU*, San Francisco, California, NH11A–1342.
- 154.– Prasetya, T., Harjadi, P., Nugroho C., Okal, E., Synolakis, C., Kalligeris, N., 2011, Field survey and preliminary modeling of the 2011 Tohoku tsunami at Jayapura, Papua, Indonesia, *Fall Meeting, American Geophysical Union*, San Francisco, California, NH11A–1351.
- 153.– Uslu, B., Synolakis, C., Eble M.C., Titov, V.V., 2011, Probabilistic Tsunami Hazard Assessment in California, *Fall Meeting, American Geophysical Union*, San Francisco, California, NH24B–02.
- 152.– Fritz, H.M., and 11 others, 2010, Reconnaissance of the 27 February 2010 Tsunami in Chile, *Fall Meeting, American Geophysical Union*, San Francisco, California, G31B–03.
- 151.– Spillane, M., Titov V.V., Moore C.W., Aydin, B., Kânoğlu, U., Synolakis, C.E., 2010, Tsunami Focusing, *2010 Fall Meeting, American Geophysical Union*, San Francisco, California, G33A–0835.
- 150.– Weiss R., Synolakis, C.E., O’shay J. A., 2010, Initial waves from submarine landslides *Fall Meeting, American Geophysical Union*, San Francisco, California, OS13E–1302.
- 149.– Aydin B., Kânoğlu, U., Synolakis C.E., 2010, Nonlinear analytical solution for landslide generated tsunamis, *Fall Meeting, American Geophysical Union*, San Francisco, California, NH11A–1112.
- 148.– Titov, V.V.; Bernard, E.N.; Weinstein, S.A.; Kânoğlu, U. Synolakis, C.E., 2010, Tsunami Forecast Progress Five Years After Indonesian Disaster, presented at the European Geosciences Union meeting, Vienna, Austria, 2010EGUGA..1214306T.
- 147 – Vale B.L., Kalligeris, N., Synolakis, C.E., Findikakis, A.N., 2010, Simulations of Tsunami Generation, Propagation, and Runup from a Potential Submarine Mass Failure at the East Breaks Slump in the Gulf of Mexico *2010 Ocean Sciences Meeting, American Geophysical Union*. Portland, Oregon PO45X–05.
- 146.– Fritz, H.M., Borrero, J.C., Okal, E.A., Synolakis, C.E., Weiss, R., Jaffe, B., Foteinis, S., Lynett, P.J., 2010, Reconnaissance of the 29 September 2009 Samoa Tsunami, *Ocean Sciences Meeting, American Geophysical Union*. Portland, Oregon, PO43E–01.
- 145.– Synolakis, C.E., Fritz, H.M., Borrero, J.C., Titov, V.V., Okal, E.A., 2010, The Samoa tsunami of 29 September 2009: Field survey in American Samoa and preliminary modeling, *European Geosciences Union, General Assembly*, Vienna, Austria, EGU2010–6989.
- 144.– Barberopoulou, A., Borrero, J., Uslu B., Kânoğlu, U., and Synolakis, C., 2010, New Tsunami Inundation Maps for California, *European Geosciences Union, General Assembly*, Vienna, Austria, EGU2010–3898.
- 143.– Gonzalez, , F., Geist,, E., Jaffe, B., Kânoğlu, U., Mofjeld, M., Synolakis, C., Titov, V., and Arcas D., 2010, Probabilistic Tsunami Hazard Assessment Methodology, *European Geosciences Union, General Assembly*, Vienna, Austria, EGU2010–193.

- 142.– Borrero, J.C., Synolakis, C., Okal, E., Liu, P., Titov V.V., Jaffe, B.E., Fritz, 2009, The past, present and future of tsunami field surveys post-Samoa, *Fall Meeting, American Geophysical Union*, San Francisco, California, U23F–02.
- 141.– Friz, H.M., Borrero, J.C., Okal, E., Synolakis, C., Weiss R., Jaffee, B.E., Lynett P.J., Titov, V.V., Foteinis S., Chain I., Liu, P., 2009, Reconnaissance Survey of the 29 September 2009 Tsunami on Tutuila Island, American Samoa, *Fall Meeting, American Geophysical Union*, San Francisco, California, U23F–04.
- 140.– Borrero, J.C., Okal, E., Fritz, H.M., Weiss R., Synolakis, C., Foteinis, S., Liu, P., Chan, I. Simcock, J., 2009, Field Survey and Preliminary Analysis of the September 29, 2009 Tsunami on Upolu and Manono Islands, Samoa, *Fall Meeting, American Geophysical Union*, San Francisco, California, U23F–06, INVITED.
- 139.– Foteinis, S., Synolakis, C., Titov V.V., 2009, Ofu and Ologesa survey of the 29 September 2009 tsunami, *Fall Meeting, American Geophysical Union*, San Francisco, California, OS43D–1343.
- 138.– Wilson, R.I., and 12 others, 2009, Development Of New Databases For Tsunami Hazard Analysis In California, *Fall Meeting, American Geophysical Union*, San Francisco, California, OS43A–1370.
- 17.– Weiss R., Synolakis, C.E., 2009. Initial Waves from Submarine Landslides, *Fall Meeting, American Geophysical Union*, San Francisco, California, OS43A-1383.
- 136.– Kânoğlu U., Titov V.V., Aydin B., Synolakis C.E., 2009, Propagation of finite strip sources over a flat bottom, *ITS 2009, International Tsunami Symposium*, Novosibirsk, Russia, <http://tsun.sccc.ru/tsunami2009>.
135. Kalligeris, N., Okal, E.A., and Synolakis, C.E. 2009, Tsunami Simulations for Regional Sources in the South China and Adjoining Seas *2009 Fall Meeting, American Geophysical Union*, San Francisco, California, OS43A-1370.
134. Titov, V. V. Bernard, E. N., Weinstein, S., Kânoğlu, U., Moore, C. W., Synolakis, C.E., 2009, Tsunami Forecast Progress Five Years After Indonesian Disaster, *2009 Fall Meeting, American Geophysical Union*, San Francisco, California, OS31B–05.
- 133.– Okal, E.A., Fritz, H.M., Synolakis, C.E., Borrero, J.C., Hartnady, C.J.H., , and. Weiss, R., 2009, 2004 Sumatra tsunami surveys in the Western Indian Ocean and inferences for future tsunami hazard in region, *2009 IUGG/IASPEI 35th General Assembly* , Cape Town, South Africa.
- 132.– Barberopoulou A., Synolakis C.E., Legg M.R., Uslu B., 2009, Tsunami hazard of California, *International Tsunami Symposium*, Novosibirsk, Russia, <http://tsun.sccc.ru/tsunami2009>.
- 131.– Synolakis C., Kânoğlu U., 2009, Tsunami modeling: development of benchmarked models, *International Tsunami Symposium*, Novosibirsk, Russia.
- 130.– Synolakis, C., Foteinis, S., Voukouvalas, V., Kalligeris, N., 2009, Erosion in the Beaches of Crete, *European Geosciences Union, General Assembly*, Vienna, Austria, EGU2009–5147.
- 129.– Okal, E.A., Hartnady, C.J., Synolakis, C.E., 2009, The South Sandwich "Forgotten" Subduction Zone and Tsunami Hazard in the South Atlantic, *European Geosciences Union, General Assembly*, Vienna, Austria, EGU2009–5251.
- 128.– Kalligeris, N., Okal, E.A., Synolakis, C.E., 2009, Tsunami Simulations for Regional Sources in the South China and Adjoining Seas, *European Geosciences Union, General Assembly*, Vienna, Austria, EGU2009–4990.
- 127.– Flouri, E., Chrysoulakis N., , Mitsoudis D.A., , Kamarianakis Y. , Foteinis, S., Oka E.I and Synolakis C., 2009, Tsunami Hazard Assessment in the Eastern Aegean Sea, *European Geosciences Union, General Assembly*, Vienna, Austria, EGU2009–5544.
- 126.– Okal, E.A. & Synolakis C.E., 2008. Simulated Tsunami Hazard In The Indian Ocean, *Western Pacific Geophysics Meeting , American Geophysical Union*, Cairns, Australia, U41A-04.
- 125.– Wilson, R.I., Barberopoulou, A., Miller, K.M., Goltz, J.D., Synolakis, C.E., 2008, New Maximum Tsunami Inundation Maps for Use by Local Emergency Planners in the State of California, USA, *Fall Meeting, American Geophysical Union*, San Francisco, California, OS43D–1343.



- 124.– Ambraseys, N., Synolakis, C.E., 2008, Tsunami Catalogues for the Eastern Mediterranean - Revisited, *Fall Meeting, American Geophysical Union*, San Francisco, California, OS51E-06.
- 123.– Ewing, L., Foteinis, S., Kalligeris, N., Palaiologou, A., Synolakis, C.E., 2008, The plight of the beaches of Greece, *Fall Meeting, American Geophysical Union*, San Francisco, California, OS21E-1230.
- 122.– Kalligeris, N., Synolakis, C.E., Okal, E.A., 2008, Simulation of tsunami hazards from regional sources in the South China Sea and adjoining seas, *Fall Meeting, American Geophysical Union*, San Francisco, California, OS53B-1317.
- 121.– Flouri, E., Chrysoulakis, N., Dougalis, V., Foteinis, S., Synolakis, C.E., 2008, Tsunami Hazards in the Eastern Mediterranean, *Fall Meeting, American Geophysical Union*, San Francisco, California, OS53B-1303.
- 120.– Barberopoulou, A., Legg, M., Uslu, B., Synolakis, C.E., 2008, Tsunami Hazards in San Diego Bay, California, *Fall Meeting, American Geophysical Union*, San Francisco, California, OS42B-07.
- 119.– Kânoğlu, U., and Synolakis, C.E., 2008, Tsunami Modeling: Development of Benchmarked Models, *Fall Meeting, American Geophysical Union*, San Francisco, California, OS41G-05.
- 118.– Synolakis, C.E., Okal, E.A., Hartnady, C J., 2007, Hydrodynamic simulations of farfield risk in the Indian Ocean with special emphasis on Africa, *Fall Meeting, American Geophysical Union*, San Francisco, California, S31C-0568.
- 117.– Okal, E. A., Ebeling, C. W., Stein, S., Synolakis, C. E., 2007, The 2007 Bengkulu earthquake series in the context of mega-ruptures off Sumatra, *Fall Meeting, American Geophysical Union*, San Francisco, California, U53A-02 INVITED.
- 116.– Borrero, J.C., Uslu, B., Okal, E A, Synolakis, C. E., 2007, Probabilistic Tsunami Hazard Assessment for California from Distant Sources, *2007 Fall Meeting, American Geophysical Union*, San Francisco, California, S51C-07.
- 115.– Uslu, B., Borrero, J.C., Barberopoulou, A. E., Synolakis, C. E., 2007, Tsunami Hazard Assessment and Inundation Maps for Crescent City , *2007 Fall Meeting, American Geophysical Union*, San Francisco, California, S53A-1013.
- 114.– Fritz, H., Kongko, W., Moore, A., McAdoo, B., Goff, J., Harbitz, C., Uslu, B., Kalligeris, N., Titov, V., Synolakis, C., 2007, Extreme run-up from the 17 July 2006 Java tsunami, *2007 European Geosciences Union, General Assembly*, Vienna, Austria, EGU2007-A-10765.
- 113.– Fritz, H., Borrero, J., Synolakis, C., 2007, 2004 Indian Ocean tsunami flow velocity measurements from eyewitness videos, *European Geosciences Union, General Assembly*, Vienna, Austria, EGU2007-A-10687.
- 112.– Ozer, C; Yalciner, A. C., Pelinovsky, E., Zaytsev, A., Kurkin, A., Synolakis, C., 2007, Hydrodynamic loads of tsunamis in the inundation zone, *European Geosciences Union, General Assembly*, Vienna, Austria, EGU2007-A-05443.
- 111.– Geist, E.L., Gonzalez, F.I., Synolakis, C.E., 2006, Development of a Probabilistic Inundation Map for Tsunamis, *Ocean Sciences Meeting, American Geosciences Union*, Honolulu, Hawaii, OS23N-06.
- 110.– Synolakis, C.E. and Okal, E.A., 2006, Far-field tsunami risk from mega-thrust earthquakes in the Indian Ocean, *Fall Meeting, American Geophysical Union*, San Francisco, California, U53A-0040.
- 109.– Borrero, J.C., Fritz, H.M., Kong, L.S., Synolakis, C.E., Okal, E.A., 2006, Basin-wide runup measurements of the 26 December 2004 Indian Ocean tsunami, *Fall Meeting, American Geophysical Union*, San Francisco, California, U53C-03.
- 108.– Fritz, H.M., Goff, J., Harbitz, C., McAdoo, B., Moore, A., Latief, H., Kalligeris, N., Kodjo, W., Uslu, B., Titov, V., Synolakis C.E., 2006, Survey of the July 17, 2006.
- 107.– Titov, V., Gonzalez, F., Kânoğlu, U., Yalciner, A., Synolakis, C.E., 2006, Standards and Guidelines for Numerical Models for Tsunami Hazard Mitigation, *Fall Meeting, American Geophysical Union*, San Francisco, California, GC41B-1057.
- 106.– Borrero, J.C., Uslu, B. Titov, V., Synolakis, C.E., 2006, Modeling Tsunamis For California Ports And Harbors,, *International Conference on Coastal Engineering (ICCE)*, San Diego, California.

- 105.– Synolakis, C.E., Fritz, H.M., Borrero, J.C., Okal, E.A. , 2006, Effects of The 26 December Tsunami In The Near And Far Field, *International Conference on Coastal Engineering*, San Diego, California.
- 104.– Fritz, H.M., Borrero, J.C., Synolakis, C.E., Okal, E.A., 2006, Comparison between the Effects of the of the Hurricane Katrina Storm Surge and the Indian Ocean Tsunami, *International Conference on Coastal Engineering*, San Diego, California.
- 103.– Synolakis, C.E., 2005, Risk Management – The Challenge of Tsunamis, *Association of Pacific Rim Universities Research Symposium on Earthquake Hazards around the Pacific Rim* , Kyoto University, Kyoto, Japan.
- 102.– Kânoğlu, U., and Synolakis, C.E.,2005, Initial value problem solution of the nonlinear shallow-water wave equations, *International Tsunami Symposium (ITS-2005)*, Chanea, Greece.
- 101.– Synolakis, C.E., Okal, E.A., Gaspari, M.G., Voukouvalas, E.,2005, The 26-December megatunami in the context of the tsunamis in the past 60 years, *International Tsunami Symposium (ITS-2005)*, Chanea, Greece.
- 100.– Synolakis, C.E., Fritz, H.M., Borrero, J.C., 2005, Far field surveys of the Indian Ocean tsunami, in Sri Lanka, Maldives and Somalia, *International Tsunami Symposium (ITS-2005)*, Chanea, Greece.
- 99.– Okal, E.A., Synolakis,C.E., Yalciner, A.C.,2004, The Amorgos, Greece earthquake and tsunami of 09 July 1956: Focal mechanism and field survey, *2004 Fall Meeting, American Geophysical Union* , OS23D-1358, San Francisco, California.
- 98.– Synolakis, C.E., Okal, E.A., Borrero, J.C.,2004, Quantifying tsunami risk at the Pisco, Peru LNG terminal project, *2004 Fall Meeting, American Geophysical Union* , OS22B-08, San Francisco, California.
- 97.– Yalciner, A.C., Kânoğlu, U., Gonzalez, F., Titov, V. V. Synolakis, C.E.,2004, Quantifying tsunami impact on structures, *2004 Fall Meeting, American Geophysical Union* , OS23D-1345, San Francisco, California.
- 96.– Gonzalez, F.I., Geist, E., Synolakis, C.E., Titov, V. V., 2004, Probabilistic Tsunami Hazard Assessment: the Seaside, Oregon Pilot Study, *2004 Fall Meeting, American Geophysical Union* , OS22-B, San Francisco, California.
- 95.– Synolakis, C., Borrero, J., Eskijian, McCarthy, D., 2004, Tsunami standards and guidelines for marine terminals, *European Geosciences Union Meeting*, EGU04-A-06653, Joint Assembly, Nice, France.
- 94.– Okal, E. A. and Synolakis, C. E., Imamura, F., Borrero, J., members of the ITST, 2004, A decade of tsunami field surveys, *European Geosciences Union Meeting*, EGS -EGU04-A-07715, Joint Assembly, Nice, France.
- 93.– Synolakis, C.E., Eskijian, M., Borrero, J.C., McCarthy, D.,2003, NEES Tsunami "Product" Example : Standards and Guidelines for Construction of Coastal Structures, *2003 Fall Meeting, American Geophysical Union*, OS21A-03, San Francisco, California.
- 92.– Borrero, J.C., Synolakis, C.E., Eisner, R.K.,2003, Tsunami Inundation Mapping for the State of California, *2004 Fall Meeting, American Geophysical Union*.OS21A-04, San Francisco, California.
- 91.– Yalciner, A.C., Pelinovsky, E., Imamura, F., Synolakis, C.E., 2003, The preliminary estimates of tsunami risk zones in the Sea of Marmara, *2004 Fall Meeting, American Geophysical Union*, OS21D-03, San Francisco, California.
- 90.– Legg, M.R., Borrero, J.C., Synolakis, C.E., 2003, Tsunami Hazards From Strike-Slip Earthquakes, *2003 Fall Meeting, American Geophysical Union* , OS21D-06, San Francisco, California.
- 89.– Tinti, S., Manucci, A., Pagnoni, G., Okal, E.A., Yalciner, A., Synolakis, C.E., 2003, Field Survey of the 30 December 2002 Stromboli Tsunami, *2003 Fall Meeting, American Geophysical Union*, OS21A-07, San Francisco, California.
- 88.– Okal, E.A., Synolakis, C.E., Borrero, J.C.,2003, 1992-2002: Perspective on a decade of tsunami field surveys, *2003 Fall Meeting, American Geophysical Union*, OS21A-06, San Francisco, California.

87.– Synolakis, C.E., Okal, E.A., 2003, T waves from the 1998 Papua New Guinea earthquake and its aftershocks: Timing the tsunamigenic slump, *2003 Fall Meeting, American Geophysical Union*, 0S31A–04, San Francisco, California.

86.– Raichlen, F. and Synolakis, C.E., 2003, Waves and runup generated by a three dimensional sliding mass,, *European Geosciences Union Meeting, Joint Assembly, Nice, France*, Abstract EAE03–A–13328.

85.– Synolakis, C E, Okal, E A, Hoffman, I., 2003, The search for source discriminants in the near field, *European Geosciences Union Meeting, Joint Assembly, Nice, France*, EAE03–A–13229.

84.– Synolakis, C.E., Raichlen, F., Borrero, J.C., 2003, Waves and runup generated by three dimensional sliding mass, JSS07/09P/A02-009, IUGG 2003, Sapporo, Japan.

83.– Yalciner, A., Haboglu, B., Pelinofsky, E., Imamura, F., Synolakis, C.E., 2003, Tsunami simulation for the southwestern coast of Anatolia, JSS07/09/A02-012, International Union of Geodesy and Geophysics 2003, Sapporo, Japan.

82.– Okal, E.A.. and Synolakis, C.E., 2003, The search for tsunami source discriminants in the near and far fields, Abstract JSS07/09A/A02-007 International Union of Geodesy and Geophysics 2003, Sapporo, Japan.

81.– Legg, M.R., Borrero, J.C., Synolakis, C.E., 2002, Tsunami Generation From the Santa Catalina Island Restraining Bend Offshore of Los Angeles, California, *2002 Fall Meeting, American Geophysical Union*, NG62A–0940, San Francisco, California.

80.– Synolakis, C.E., Okal, E.O., Titov, V. V., Bernard, E.N., 2002, A seismic dislocation model for the 1946 Aleutian tsunami in the far–field, *2002 Fall Meeting, American Geophysical Union*, OS51A–0146, San Francisco, California.

79.– Borrero, J.C., Davies, H., Uslu, B., Okal, E., Synolakis, C., 2002, Preliminary Modeling of Tsunami Waves Generated by the Earthquake of 9 September 2002 Offshore of Northern Papua New Guinea, *2002 Fall Meeting, American Geophysical Union*, S62C–1213, San Francisco, California.

78.– Raichlen, F. and Synolakis, C.E.,2002, Large Scale Laboratory Experiments for Landslide Generation, 28th International Conference on Coastal Engineering, ASCE,Cardiff, England.

77.– Hoffman, I., Synolakis, C.E., Okal, E.O., 2002, Systematics of the distribution of tsunami run-up along coastlines in the near-field for dislocation sources with variable parameters, Western Pacific Geosciences Meetings, AGU, Session OS51C-09, Wellingford, New Zealand. (<http://www.agu.org/meetings/wa>)

76.– Borrero, J, Okal, E.O., Synolakis, C.E., 2002, Tonga as a possible source of destructive transpacific tsunamis: The case of the 1865 earthquake, Western Pacific Geosciences Meetings, AGU, Session OS51C-11, Wellingford, New Zealand.

75.– Raichlen, F., Borrero, J., Uslu, B., and Synolakis, C.E., 2002, Modeling Landslides in the Laboratory, IX INTERNATIONAL SYMPOSIUM ON NATURAL AND HUMAN-MADE HAZARDS Disaster Mitigation in the Perspective of the New Millennium, Natural Hazards Society, Attalya, Turkey.

74.– Synolakis, C.E., Okal, E.O., 2002, Far-Field Theoretical Models of Tsunamis Generated by Dislocations and Landslides, IX INTERNATIONAL SYMPOSIUM ON NATURAL AND HUMAN-MADE HAZARDS Disaster Mitigation in the Perspective of the New Millennium, Natural Hazards Society, Attalya, Turkey.

73.– Landslide waves and the spell of Bob Wiegel, 2002, Association of Coastal Engineers/California Shore and Beach Protection Association, Annual meeting, ASCE, San Francisco, California.

72.– Yalciner, A. C., Imamura F., Synolakis, C. E., 2002, Simulation of tsunami related to caldera collapse and a case study of thera volcano in Aegean sea, EGS02–A–05450, *European Geosciences Union Assembly, Nice, France*.

71.– Raichlen, F and Synolakis, C.E., 2002, Waves and run–up generated by a three-dimensional sliding mass, EGS02–A–01564, *European Geosciences Union Assembly, Nice, France*.

70.– Okal, E. A. and Synolakis, C. E., 2002, Far-field theoretical models of tsunamis generated by dislocations and landslides, Abstract EGS02–A–03715, *European Geosciences Union Assembly, Nice, France*.

- 69.– Synolakis, C.E. and Okal E.O., 2002, The 1998 Papua New Guinea Tsunami : Evidence for an Underwater Slump, TRIRAP 2002, International Workshop on Tsunami Risk and its Reduction in the Asia–Pacific Region, Badung Indonesia.
- 68.– Okal, E. A. and Synolakis, C. E., Plafker, G., 2002, Field Surveys of the 1946 Aleutian Tsunami, TRIRAP 2002, International Workshop on Tsunami Risk and its Reduction in the Asia–Pacific Region, Badung Indonesia.
- 67.– Synolakis, C.E., Inundation maps for the State of California, 2002, 4th EQTAP Annual Meeting, Kobe, Japan.
- 66.– Plafker, G., Okal, E., Synolakis, C.E., 2001, New near source tsunami field data for the April 1, 1946 Aleutian tsunami, *Bulletin of the American Geophysical Union*, S12B–0603 **82**. San Francisco, California.
- 65.– Synolakis, C.E., Borrero, J., Yalciner, A., 2001, Developing inundation maps for the State of California, in Abstracts, NATO Advanced Technology Workshop on Underwater Ground Failures on Tsunami Generation, Modeling, Risk, and Mitigation, 37–38, Istanbul, Turkey. ISBN 975–93455–0–1.
- 64.– Plafker, G., Greene, H.G., Maher, N., Synolakis, C.E., Borrero, J., Yalciner, A., 2001, The destructive 1994 submarine landslide and tsunami at Skagway Alaska : an example of a nearshore submarine failure, in Abstracts, NATO Advanced Technology Workshop on Underwater Ground Failures on Tsunami Generation, Modeling, Risk, and Mitigation 39–40, Istanbul, Turkey. ISBN 975–93455–0–1.
- 63.– Okal, E. and Synolakis, C.E., 2001, Identification of the source of the 1998 PNG tsunami as a slump, Abstracts, NATO Advanced Technology Workshop on Underwater Ground Failures on Tsunami Generation, Modeling, Risk, and Mitigation, 37–38, Istanbul, Turkey. ISBN 975–93455–0–1.
- 62.– Badriyha, B.N., Kitto, A.M., Synolakis, C.E., and Pirbazari, M., 2000, Emissions of reactive organic gases and particulate matter from rubberized asphalt and bitumen, *Annual Conference, American Institute of Chemical Engineers*.
- 61.– McCoy, F.W., Synolakis, C.E., Papadopoulos, G.A., 2000, Tsunami generated during the LBA Eruption of Thera – Evidence from modeling and tsunami deposits, *Bulletin of the American Geophysical Union*, **81** (48), San Francisco, California.
- 60.– Synolakis, C.E., Borrero, J., Yalciner A., Plafker, G, Greene, H.G., Watts, P., 2000, Modeling of the 1994 Skagway, Alaska tsunami, *Bulletin of the American Geophysical Union*, **81** (48), San Francisco, California.
- 59.– Kânoğlu, U. and Synolakis, C.E., 2000, Propagation and runup of landslide generated waves over continental shelf and slope bathymetry, *Bulletin of the American Geophysical Union*, **81** (48), San Francisco, California.
- 58.– Watts, P., Grilli, S.T., Synolakis, C.E., 2000, Predicting tsunami amplitudes, *Bulletin of the American Geophysical Union*, **81** (48), San Francisco, California.
- 57.– Plafker, G., Greene, H., Maher, N., Synolakis, C., 2000, Mechanism of the November 3, 1994 submarine landslide and associated landslide generated tsunami at Skagway Alaska, *Bulletin of the American Geophysical Union*, **81** (48), San Francisco, California.
- 56.– Ruscher, C., Kânoğlu, U, Koshimura, S., Moore, A., Matsutomi, T., Synolakis, C.E., 2000, The November 26, 1999 Vanuatu tsunami, *bulletin of the American Geophysical Union*, **81** (48), San Francisco, California.
- 55.– Borrero, J.C., Synolakis, C.E., Yalciner, A.C., McCarthy, D., 2000, Tsunami inundation maps for Santa Barbara and Santa Monica Bay, *Bulletin of the American Geophysical Union*, **81** (48), San Francisco, California.
- 54.– Okal, E., Fryer, G., Synolakis, C.E., Borrero, J., Ruscher, D., Rousseau, D., Heinrich, P., Guille, G., 2000, 1946 Aleutian tsunami field survey in the Marquesas, *Bulletin of the American Geophysical Union*, **81** (48), San Francisco, California., **81** (48), San Francisco, California.
- 53.– Grilli, S.T., Watts, P., Guignard, S., Synolakis, C.E., 1999, Wave Amplitude and Runup Predictions for Tsunamis Generated by Underwater Landslides, *Bulletin of the American Geophysical Union*, **80**, San Francisco, California.

- 52.– Borrero, C., Kânoğlu, U., Synolakis, C.E., 1999, Tsunami Generation Mechanisms Along the California Coast and the Inundation Mapping Effort, *EOS, Bulletin of the American Geophysical Union*, **80**, 0S12B–30 San Francisco, California.
51. Grilli, S.T., Watts, P., Guinard, S., Synolakis, C.E., 1999, Wave Amplitude and Runup Predictions for Tsunamis Generated by Underwater Landslides *EOS, Bulletin of the American Geophysical Union*, **80**, OS32D–11, San Francisco, California.
- 50.— Sweet, S., Silvevr, E., Davies, H., Watts, P., Synolakis, C., 1999, Seismic Reflection Images of the Source Region of the Papua New Guinea Tsunami of July 17, 1998 *EOS, Bulletin of the American Geophysical Union*, **80**, S51C–02, San Francisco, California.
- 49.– Watts, P., Borrero, J., Synolakis, C.E., 1999, Probability Predictions of Tsunami Generation by Mass Failure Off of Southern California, *EOS, Bulletin of the American Geophysical Union*, **80**, S51C–12, San Francisco, California.
- 48.– Yalciner, A.C., Jose Borrero, J., Utku Kânoğlu, U., Watts, P., Synolakis, C.E., and Imamura F., 1999, Field Survey of 1999 Ismit Tsunami and Modeling Effort of New Tsunami Generation Mechanism, *EOS, Bulletin of the American Geophysical Union*, **80**, S51C–09, San Francisco, California.
- 47.– Tappin, D.R., Watts, P., Borrero, J., Okal, E., Bardet, J.P., Grilli, S.T., Matsumoto, T., and Synolakis, C.E., 1999, Submarine Slump Generation of the 1998 Papua New Guinea Tsunami: the Evidence so Far, *EOS, Bulletin of the American Geophysical Union*, **80**, S51C–01, San Francisco, California.
- 46.– Watts, P., Borrero, J.C., Tappin, D.R., Bardet, J.P., Grilli, S.T., Synolakis, C.E., 1999, Novel simulation technique employed in the 1998 Papua New Guinea Tsunami, Proc. IUGG, Birbingham, England.
- 45.– Watts, P., Synolakis, C.E., Gonzalez, F., 1998, An Evaluation of Underwater Landslide Tsunami Hazards, *EOS, Bulletin of the American Geophysical Union*, **79**, San Francisco, California.
- 44.– Watts, P., Synolakis, C.E., Grilli, S.T., 1998, Simulation of an Underwater Landslide Scenario for the 1998 Papua New Guinea Event, 1998, *EOS, Bulletin of the American Geophysical Union*, **79**, San Francisco, California.
- 43.– Synolakis, C.E., Okal, E.A., Borrero, J.C., Benson, B., Nott, J., de Lange, W.P., 1998, The July 17, 1998 Sandaun, Papua New Guinea Earthquake and Tsunami I: Preliminary report of the ITST Ë The Western and Island Coasts, *EOS, Bulletin of the American Geophysical Union*, **79** San Francisco, California.
- 42.– Tadepalli, S. and Synolakis, C.E., 1995, A model profile for tsunami wave propagation, *EOS, Bulletin of the American Geophysical Union*, **76** (46), F288, San Francisco, California.
- 41.– Kânoğlu U., and Synolakis, C.E., 1995, Wave runup on piecewise linear topographies, *EOS, Bulletin of the American Geophysical Union*, **76** (46), page F288, San Francisco, California.
- 40.– Tadepalli, S. and Synolakis, C.E., 1994, A generalized model profile for tsunami- wave runup, *Bulletin of the American Physical Society*, **40** (12), page 1982, Irvine, California.
- 39.– Kânoğlu U., and Synolakis, C.E., 1995, Wave runup on a conical island, *Bulletin of the American Physical Society*, **40** (12), page 1954, Irvine, California.
- 38.– Titov V. and Synolakis C.E., 1995, Numerical modeling of tsunami runup using VTSC–3, *Bulletin of the American Physical Society*, **40**, (12), page 1928, Irvine, California.
- 37.– Imamura, F., Gica, E., Synolakis, C.E., Titov, V., Listanco, E., J.S.Lee, 1995, Field investigation of the 1994 Mindoro earthquake and tsunami, *Proc. XXI General Assembly of International Union of Geodesy and Geophysics*, Boulder, Colorado, page A332.
- 36.– Bottero, A., Maramai, A., Rivai, T., Synolakis, C.E., Tinti, S., 1995, The 3 June 1994 Java tsunami, *Proc. XXI General Assembly of International Union of Geodesy and Geophysics*, Boulder, Colorado, page A332.
- 35.– Briggs, M.J. and Synolakis, C.E., 1995, Physical processes of tsunami wave evolution and runup on an island, *Proc. XXI General Assembly of International Union of Geodesy and Geophysics*, Boulder, Colorado, page A341.

- 34.– Titov V. and Synolakis C.E., 1995, Field Survey of the Kuril Islands tsunami, *Earthquake Engineering Research Institute Annual Meeting*, San Francisco, California.
- 33.– Synolakis, C.E., 1995, Field survey of the 11/14/94 Mindoro earthquake, *US–Japan Joint Workshop on Wind Earthquake Engineering*, Berkeley, California.
- 32.– Titov, V. and Synolakis, C.E., 1994, Estimation of the source parameters of the Hokkaido–Nansei–Oki tsunami using runup data and VTSC-3, *EOS, Bulletin of the American Geophysical Union*, **75**, 44, page 357, San Francisco, California.
- 31.– Tadepalli, S. and Synolakis, C.E., 1994, A generalized model profile for long wave runup, *EOS, Bulletin of the American Geophysical Union*, **75** (44), 358, San Francisco, California.
- 30.– Titov, V. and Synolakis, C.E., 1994, A study of the July 12, 1993 Hokkaido–Nansei–Oki using a 3–D runup model *Western Pacific Geophysics Meeting*, Hong Kong, supplement to EOS, page 66, June 21, 1994.
- 29.– Tadepalli, S. and Synolakis, C.E., 1994, A family of N–waves for modeling tsunami runup runup, 1994 Western Pacific Geophysics Meeting, Hong Kong, supplement to EOS, page 63, June 21, 1994.
- 28.– Briggs, M.J. and Synolakis, C.E., 1994, Tsunami evolution and runup on an island, *EOS, Bulletin of the American Geophysical Union*, **75** (44), page 358, San Francisco, California.
- 27.– Kânoğlu U., and Synolakis, C.E., 1994, Solitary wave runup on piecewise linear 1–D and 2–D Topographies, *EOS, Bulletin of the American Geophysical Union*, **75** (44), page 358, San Francisco, California.
- 26.– Tadepalli, S. and Synolakis, C.E., 1994, A generalized model profile for long wave runup, *Bulletin of the American Physical Society*, **39**, Atlanta, Georgia.
- 25.– Synolakis, C.E., Imamura, F., Tsuji, Y., Matsutomi, H., Cook, B., Tinti, S., 1994, Field Survey of the June 3, 1994 East Java Tsunami, *EOS, Bulletin of the American Geophysical Union*, **75** (44), page 355, San Francisco, California. (INVITED TALK)
- 24.– Synolakis, C.E., 1994, The runup of dipole waves, *European Union Workshop on Genesis and Impacts on the European Coasts, GITEC–2*, Santorini, Greece.
- 23.– Briggs, M.J., Synolakis, C.E., Harkins, G.S., Kânoğlu, U., and Collidge, A., 1994, Measurements of Tsunami Runup on a Circular Island, *Seism. Res. Let.*, **65** (1), page 26, Pasadena, California.
- 22.– Titov, V.V., Synolakis, C.E., 1994, Numerical study of the 1992–93 tsunami events *Seism. Res. Let.*, **65** (1), page 25, Pasadena, California.
- 21.– Tadepalli, S. and Synolakis, C.E., 1993, The Runup of N–waves, *EOS, Bulletin of the American Geophysical Union*, **74**, 43, page 333, San Francisco, California.
- 20.– Titov, V.V., Synolakis, C.E., 1993, Numerical study of the 1992 Nicaragua tsunami, *EOS, Bulletin of the American Geophysical Union*, **74**, 43, page 350, San Francisco, California.
- 19.– Tadepalli, S. and Synolakis, C.E., 1993, The evolution of dipole waves, *EOS, Bulletin of the American Geophysical Union*, **74**, 43, page 333, San Francisco, California.
- 18.– Tadepalli, S. and Synolakis, C.E., 1993, The evolution of dipole waves, *Bulletin of the American Physical Society*, **38** (8), Albuquerque, New Mexico.
- 17.– Briggs, M. and Synolakis, C.E., 1992, Large scale model tests of tsunami runup, *EOS, Bulletin of the American Geophysical Union*, **73** (43), page 267, San Francisco, California.
- 16.– Tadepalli, S. and Synolakis, C.E., 1992, The runup of dipole waves *Bulletin of the American Physical Society*, **37** (8), page 1737 Tallahassee, Florida.
- 15.– Tadepalli, S. and Synolakis, C.E., 1991, Roots of  $J_n(z) \pm iJ_{n+1}(z)$  and the evaluation of integrals with cylindrical function kernels, *Bulletin of the American Physical Society*, **36** (10), page 2706, Phoenix, Arizona.
- 14.– Synolakis, C.E. and Skjelbreia, J.E. 1990, The evolution of the maximum height of solitary waves, *Bulletin of the American Physical Society*, **35** (10), Ithaca, New York
- 13.– Synolakis, C.E. 1990, Limiting values in wave runup, *10th US–Japan Joint Tsunami Workshop*, Honolulu, Hawaii.

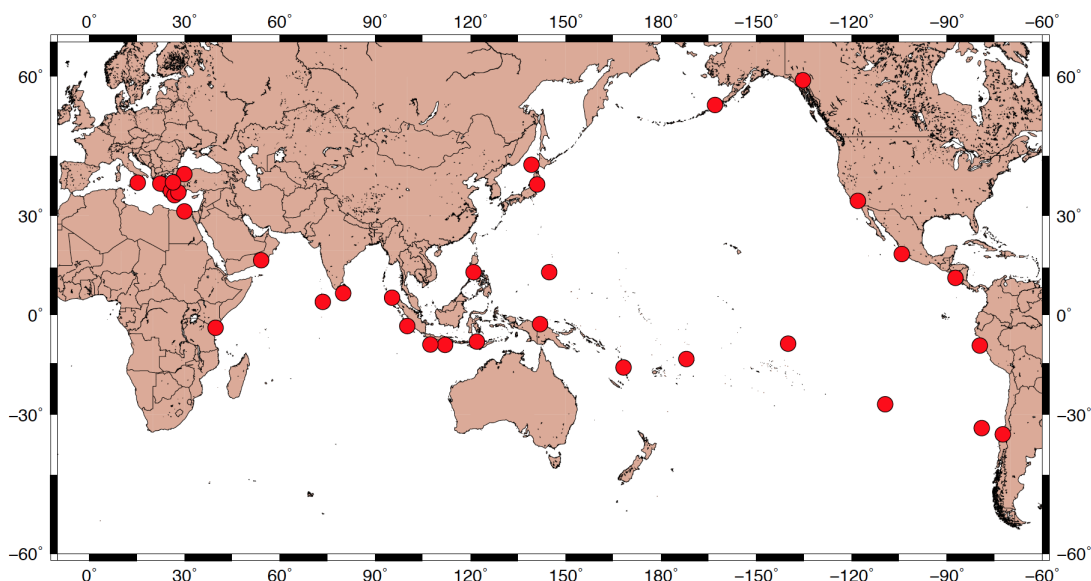
- 12.– Synolakis, C.E. 1990, Asymptotic results in wave runup, *International Workshop on Long Wave Runup*, Catalina Island, California.
- 11.– Hodge D., Synolakis, C.E. and Papanicolaou, P., 1990, The maximum height of rise of elliptical jets in stratified fluids, *Bulletin of the American Physical Society*, **35** (10), Ithaca, NY.
- 10.– Synolakis C.E., 1989, On the maximum runup of tsunamis using linear theory. *International Tsunami Symposium, ITSU*, XII, November, USSR.
- 9.– Synolakis C.E., 1989, On the maximum runup of cnoidal waves, *3rd National Theoretical Mechanics Conference*, Athens, Greece.
- 8.– Synolakis C.E., 1988, The runup of cnoidal waves, *Bulletin of the American Physical Society*, **32** (8), Buffalo, New York.
- 7.– Synolakis C.E., 1988, The runup of cnoidal waves, *EOS, Bulletin of the American Geophysical Union*, **69** (16), San Francisco, California.
- 6.– Synolakis, C.E., 1987, The breaking of long waves, *EOS, Bulletin of the American Geophysical Union*, **68** (44), San Francisco, California.
- 5.– Synolakis, C.E., 1987, The breaking of solitary waves, *Bulletin of the American Physical Society*, **32** (10), Eugene, Oregon.
- 4.– Synolakis, C.E., 1987, The reflection of solitary waves, *EOS, Bulletin of the American Geophysical Union*, **68** (16), Baltimore, Maryland.
- 3.– Synolakis, C.E., 1986, The climb of solitary waves up sloping beaches, *EOS, Bulletin of the American Geophysical Union*, **67** (44), San Francisco, California.
- 2.– Synolakis, C.E., 1986, The runup of solitary waves. Linear and nonlinear theory, *Bulletin of the American Physical Society*, **31** (10), Columbus, Ohio.
- 1.– Synolakis, C.E., 1986, The runup of solitary waves, *EOS, Bulletin of the American Geophysical Union*, **67** (16), Baltimore, Maryland.

## 9 FIELD SURVEYS FOR EARTHQUAKES AND TSUNAMIS

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|--|-------------|
| 31.– The 16 September 2015 Chilean tsunami in the far field,   | 9/15        |
| 30.– The 23 July 1949 Chios–Cesme earthquake and tsunami,  | 7/15        |
| 29.– The 3 March 2011 Great Japan tsunami in Guam and Saipan,  | 11/12       |
| 28.– The 3 March 2011 Great Japan tsunami, two different expeditions,  | 4/11 & 8/13 |
| 27.– The 27 October 2010 Mentawai, Sumatra tsunami,  | 11/10       |
| 26.– The 27 February 2010 Chile tsunami,   | 3/10        |
| 25.– The 3 January 2010 Solomon Islands tsunami (Student N. Kalligeris attended),  | 1/10        |
| 24.– The 29 September 2009 Samoan tsunami,   | 10/10       |
| 23.– The 10 April 2007 Solomon Islands tsunami (Student N. Kalligeris attended),   | 4/07        |
| 22.– The 17 July 2006 Central Javan tsunami,   | 7/06        |
| 21.– The 26 December 2004 Sumatra Megatsunami - 3 different expeditions, in Sri Lanka, India, Banda Aceh, Kenya and Oman | 1/05–8/05   |
| 20.– The 30 December 2002 Stromboli, Italy, tsunami,   | 5/03        |
| 19.– The 9 September 2002 Papua New Guinea tsunami <sup>1</sup> ,  | 9/02        |
| 18.– The Unimak, Island field survey of the 1946 tsunami,  | 8/01        |
| 17.– The Easter and Juan Fernandez Islands survey of the 1946 tsunami,   | 11/00       |
| 16.– The Marquesas and Society Islands field survey of the 1946 tsunami,   | 7/00        |
| 15.– The 1993 Skagway, Alaska tsunami post even survey,  | 10/99       |
| 14.– The 17 November 1999 Pentecost, Vanuatu earthquake and tsunami,   | 12/99       |
| 13.– The 17 August 1999 Izmit, Turkey earthquake and tsunami,  | 8/99        |
| 12.– The 1 July 1998 Sissano, Papua New Guinea earthquake and tsunami,   | 7/98        |
| 11.– The 21 February 1996 Chimpote, Peru earthquake and tsunami,   | 3/96        |
| 10.– The 14 February 1996, Biak, Irian Jaya earthquake and tsunami <sup>2</sup> ,  | 3/96        |
| 9.– The 9 October 1995, Manzanillo, Mexico earthquake and tsunami,   | 10/95       |

<sup>1</sup>CES organized the US team, student Burak Uslu and post–doc Jose Borrero attended

<sup>2</sup>Organized US team, students Utku Kânoğlu and Jose Borrero attended



WORLDWIDE FIELD SURVEYS OF C.E. SYNOLAKIS 1992-2015

- |   |       |
|---|-------|
| 8.- The 15 June 1995, Aigion, Greece earthquake and tsunami,                        | 6/95  |
| 7.- Post-event survey of the Nicaraguan coastline,                                  | 3/95  |
| 6.- The 14 November 1994, Mindoro, Philippines earthquake and tsunami,              | 11/94 |
| 5.- The 4 October 1994, Kuril islands, Russia earthquake and tsunami <sup>3</sup> , | 10/94 |
| 4.- The 2 June 1994, East Java, Indonesia earthquake and tsunami,                   | 6/94  |
| 3.- The 17 January 1994, Northridge earthquake dam motions,                         | 1/94  |
| 2.- The 12 December 1992, Flores, Indonesia earthquake and tsunami,                 | 12/93 |
| 1.- The 1 September 1992, Nicaraguan earthquake and tsunami,                        | 9/92  |

## 10 PhD THESES

11. – Kalligeris, Nikos (2017) *Turbulent Coherent Structures in Ports*, Ph.D. Thesis, University of Southern California, Los Angeles, California, 205pp.
10. – Evangelia Flouri (2017) *Tsunami hazards in South Aegean Sea*, Διδακτορική Διατριβή, Πολυτεχνείο Κρήτης, Χανιά, Ελλάδα. 140pp.
- 9.- Lesley Ewing (2014), *Community Resilience to Coastal Disasters*, Ph.D. Thesis, University of Southern California, Los Angeles, California, 186pp.
- 8.- Σπύρος Φωτεινής (2014), *Η διάβρωση των ακτών της Ελλάδος - αξιολόγηση και τρόποι αντιμετώπισης*, Διδακτορική Διατριβή, Πολυτεχνείο Κρήτης, Χανιά, Ελλάδα. 304pp.
- 7.- Μαρία Καζολέα (2013), *Higher order Boussinesq models in hydrodynamics*, Διδακτορική Διατριβή, Πολυτεχνείο Κρήτης, Χανιά, Ελλάδα. 200pp.
- 6.- Burak Uslu (2007), *Deterministic and Probabilistic Tsunami Studies in California from near and Farfield Sources*, Ph.D. Thesis, University of Southern California, Los Angeles, California, 194pp.
- 5.- Jose C. Borrero (2002), *Tsunami Hazards in Southern California*, Ph.D. Thesis, University of Southern California, Los Angeles, California, 220pp.
- 4.- Christophe Ruscher (1998), *The sloshing of trapezoidal reservoirs*, Ph.D. Thesis, University of Southern California, Los Angeles, California, 99pp.
- 3.- Titov V.V. (1997), *Numerical Modeling of Long Wave Runup*, Ph.D. Thesis, University of Southern California, Los Angeles, California, 150pp.

<sup>3</sup>Student Vasily Titov attended.



2.– Kânoğlu, U. (1996), *Analytical solutions of Long Wave Runup over Piecewise Linear Bathymetries*, Ph.D. Thesis, University of Southern California, Los Angeles, California, 180pp.

1.– Zhou, Z. (1995) *Maximum likelihood hyper-parameter estimation for Gibbs priors from incomplete data with applications in image processing*, Ph.D. Thesis, University of Southern California, Los Angeles, California, 181pp.

## 11 FUNDED RESEARCH, CONTRACTS AND GRANTS

2015–2018, *Nonlinear Long Wave Amplification in the Shadow Zone of Offshore Islands*, National Science Foundation, CMMI–1538624, \$668,815.

2013–2016, *ASTARTE - Assessment, STrategy And Risk Reduction for Tsunamis in Europe*, the EU Directorate of Research and Innovation, \$490,000.

2013–2014, *THE EU PROMETHEUS 2014 PROJECT: an EU Civil Protection Mechanism Exercise*, EU DG Echo, \$45,000.

2012–2014, *Coastal measurements of waves and currents to determine shore protection measures in Chanea*, the Prefecture of Crete, Greece, \$520,000.

2012–2013, *RAPID: Measurements of activity concentrations in soils from the Fukushima NPP accident*, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$15,000.

2011–2012, *RAPID: Tsunami Reconnaissance of the 11 March 2011, Tohoku tsunami*, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$100,000.

2010–2011, *RAPID: Tsunami Reconnaissance of the 27 October 2010 Mentawai, Sumatra tsunami*, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$95,000.

2010–2011, *RAPID: Tsunami Reconnaissance of the 27 February 2010 Chilean tsunami*, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$75,000.

2009–2010, *RAPID: Tsunami Reconnaissance of the 29 September 2009 American Samoa and Samoa Islands Earthquake*, OCE 1000694, Division of Ocean Sciences, National Science Foundation, with Professor H.M. Fritz, \$60,570.

2006–2009, *TRANSFER – Tsunami risk and strategies for the European region*, Ref: 37058 Funded under: FP6–SUSTDEV, EU Directorate for Research, \$440,000(approx).

2009–2011, *Initial Waves from Deformable Submarine Landslides*, CMMI 0928905 Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$166,614.

2006–2008, *SGER: Reconnaissance Survey of the July 17, 2006 Central Javan Earthquake and Tsunami*, CMMI 0646278, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, with Professor H.M., Fritz, \$39,950.

2006–2008, *Inundation Maps for California*, Governor’s Office of Emergency Services, \$208,866.

2005–2006, *SGER: Reconnaissance Survey of the December 26, 2004 Great Sumatran Earthquake and Tsunami*, CMMI 0531851, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, with Professor Jose Borrero, \$50,000.

2004–2009, *Collaborative Research Utilizing NEES Facilities: Landslide Tsunamis and Runup* CMMI 0324434, Division of Civil, Mechanical, and Manufacturing Innovation, The National Science Foundation, Amount : \$284,112.

2003–2008, *Generation Mechanisms of Near-and-Far Field Tsunamis*, CMMI 0301081, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$227,882.

2003, *Reconnaissance Survey of the September 9, 2002 Papua New Guinea Earthquake and Tsunami*, CMMI 0244537, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$36,000.

2001–2006, *Cooperative Research: Coastal Effects of Tsunamis*, CMMI 0099333, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$210,004.

2001–2002, *Tsunami inundation maps for Monterey Bay, California*, Governor’s Office of Emergency Services, \$52,000.

2001–2003, *SGER: Field Survey of Easter Island*, CMMI 0105171, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$45,673.

2000–2001, *SGER : Field survey of the Marquesas Islands* , CMMI 0092531, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$20,600.

1999–2001, *Workshop on the Prediction of Underwater Landslide & Slump Occurrence And Tsunami Hazards Off Of Southern California*, CMMI 9981789, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, with Professor JP. Bardet, \$47,204.

1998–2001 *Tsunami standards and guidelines for the ports of Los Angeles and Long Beach*, Federal Emergency Management Agency, \$640,345.

1999–2000, *Tsunami inundation maps for Southern California*, Governor’s Office of Emergency Services. \$98,000.

1997–1998, *Workshop on Tsunamigenic Seafloor Deformations*, CMMI 9713299, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation. With Professors G. Carrier, P. Liu, H. Yeh, \$35,000.

1996–2001, *Cooperative Research: Three-Dimensional Effects of Tsunami Runup Onto a Coastline*, CMMI 9614221, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$189,718.

1996–1997, *Field Survey of the February 17, 1996 Irian Jaya Tsunami* , CMMI 9633792, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$13,464.

1994–1997, *International Workshop on Long Wave Runup Models*, CMMI 9416997 Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, with Professors Harry Yeh & Philip Liu, \$65,027.

1994–1996, *The Slushing of the Los Angeles Dam During the Northridge January 17, 1994 Earthquake*, CMMI 9416509, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$50,155.

1992–1997 *Cooperative Research: Three-Dimensional Effects of Tsunami*, CMMI 9416509, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$234,067.

1991–1996, *Emission of VOCs from asphalt paving*, Southern California Air Quality Management District, with Professor Mike Pirbazari. \$438,986.

1989–2007, *Presidential Young Investigators Award*, CMMI 8957853, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$321,559.

1991–1995, *Integrated analytical and experimental approaches in the evaluation of reinforced concrete structures*, The Contactors’/Carpenters’ Cooperative Council, 1 of 8 co-pi/s. \$2,450,000.

1990–1992, *International Workshop on the Runup of Long Ocean Waves Onto a Coastline*, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$39,408.

1999–2002, *The development of an asphalt core tomographer*, The Strategic Highway Research Program of the NAS, with Professors R. Leahy, D., D. Yeh and V. Chang, \$954,000.

1989–1992 *The Runup of a Tsunami (Seismic Sea Wave) on to a Shoreline*, CMMI 8957853, Division of Civil, Mechanical, and Manufacturing Innovation, National Science Foundation, \$129,903.

1989–1990, *Engineering Research Equipment Grant: LDV Measurements of Water Wave-Structure Interaction*. CBET 8906898, Division of Chemical, Bioengineering, Environmental, and Transport Systems, National Science Foundation, with Prof. J.J. Lee., \$47,500.

1987–1988, *The runup of cnoidal waves*, The Faculty Research and Innovations Fund, USC, \$15,000.

1986–1987, *The forces on an accelerating plate in a fluid with a free surface*, The Faculty Research and Innovations Fund, USC, \$18,000.

1986–1987, *Graphics software for analysis of deformation of fluid elements*, IBM-ACIS, \$12,000.

## 12 INVITED SEMINARS

102.- Cornell University, Ithaca, NY,	7/2017
101.- Massachusetts Institute of Technology, Cambridge, Massachusetts,	2/2017
100.- Harvard University, Cambridge, Massachusetts,	11/15
99.- Virginia Polytechnic Institute, Blackburn,	11/15
98.- Royal Geological Society (Geological Society of London),	9/15
97.- Fire Department, Los Angeles County, Marina del Rey,	9/15
96.- American Society of Civil Engineers, Boston, Massachusetts,	9/15
95.- Δήμος Χανίων, Χανιά	4/15
94.- Northwestern University, Evanston, Illinois,	1/15
93.- California Institute of Technology, Pasadena,	11/14
92.- Goulandri Museum of Natural History, Athens	11/14
91.- Department of Civil Engineering, USC, Los Angeles,	9/14
90.- Middle East Technical University, Ankara,	5/14
89.- The Sergey Soloviev Medal Lecture, Vienna,	4/14
88.- TEDx Athens,	11/13
87.- University of Cambridge, Cambridge, UK	5/13
86.- Rotary Club, Chanea,	2/13
85.- Northwestern University, Evanston, Ill.	4/12
84.- Hellenic Chamber of Engineers, Patras,	1/12
83.- US Senate, Washington, DC.,	9/11
82.- Landesamt für Denkmalpflege und Archäologie, Halle/Saale, DE,	10/11
81.- Pythagorean Institute, Samos,	9/11
80.- Stanford University, Stanford, California	5/11
79.- Ελληνική Ψυχοαναλυτική Εταιρεία, Αθήνα,	3/11
78.- Τεχνικό Επιμελητήριο Ελλάδας, Πάτρα,	3/11
77.- US Navy, San Diego, California	2/11
76.- Department of Earth Sciences, Oxford University, Oxford,	1/11
75.- California Science Center, Los Angeles,	12/10
74.- Oregon State University, Corwalis, OR,	11/10
73.- Los Angeles County Fire Department, San Pedro, CA	4/10
72.- Liceo Lorenzo Bieza Vega, Easter Island, Chile,	3/10
71.- UNESCO- NEAMTWS Keynote, Istanbul	11/09
70.- California Seismic Safety Commission, San Francisco	10/09
69.- RegioClima - Keynote, Heraklion,	10/09
68.- UNESCO - NEAMTWS, Athens,	12/08
67.- Solutions to Coastal Disasters - Plenary speaker, Oahu	4/08
66.- Hellenic Society for the Protection of Nature,	4/08
65.- Museum of Natural History, Heraklion,	5/08
64.- Δήμος Χανίων, Ημέρα Περιβάλλοντος,	6/08
63.- Technical University of Crete,	6/08
62.- Municipality of Agia Galini, Greece,	6/08
61.- Hellenic Chamber of Engineers, Chalkis,	6/08
60.- Vandebuilt University, Saint Louis, Missouri,	11/07
59.- Foundation of Research and Technology Hellas,	10/07
58.- Bureau of Meteorology, Melbourne, Australia,	1/07
57.- German Science Foundation, Bremerhaven,	4/07
56.- UNESCO General Session on the Indian Ocean,	12/06
55.- Hellenic Chamber of Engineers, Chanea,	11/06
54.- Arizona State University,	4/06
53.- The Royal Society, London,	10/05
52.- Kyoto University, Kyoto, Japan,	9/05
51.- Foundation of Research and Technology, Heraklion	9/05
50.- Massachusetts Institute of Technology, Cambridge,	4/05
49.- Natural History Museum, Los Angeles,	5/05
48.- Hellenic Centre for Marine Research, Athens,	6/05

47.– Ecole Normal Superieure,	3/05
46.– Earthquake Engineering Research Institute,	3/05
45.– Koshland Museum, National Academy of Sciences,	2/05
44.– Indian National Science Academy, New Delhi.	1/05
43.– Northwestern University, Department of Geological Sciences,	10/04
42.– Aquarium of the Pacific keynote Lecture, Long Beach, California.	10/02
41.– Southern California Earthquake Center, Los Angeles, California.	1/01
40.– Middle East Technical University, Ankara,	1/01
39.– Department of Geophysics, University of Chile, Santiago,	11/00
38.– Pacific Marine Environmental Laboratory, NOAA.	5/00
37.– Santa Monica Planetarium, Santa Monica, California.	3/00
36.– California Institute of Technology, Pasadena, California,	1/00
35.– Arizona State University, Tempe, Arizona,	10/99
34.– The WPCOE Division, ASCE Los Angeles Technical Group.	9/99
33.– US Coast Guard, Long Beach, California,	6/99
32.– California Institute of Technology,	4/99
31.– Engineering Honors Colloquium, USC.	4/99
30.– Structural Engineering Association of Southern California, Los Angeles, California,	3/99
29.– Div. Natural Hazards Mitigation, National Science Foundation, Washington, DC.,	3/99
28.– California Institute of Technology, Pasadena, California,	12/98
27.– State of California, Seismic Safety Commission,	9/98
26.– Disaster Research Prevention Institute, Kyoto University,	7/98
25.– Governor’s Office of Emergency Services, State of California, Sacramento, California,	4/97
24.– University of California, Los Angeles.	1/98
23.– Bureau of Meteorology and Geophysics, Jakarta, Indonesia,	6/96
22.– Arizona State University, Tempe, Arizona,	4/96
21.– University of Notre–Dame, Lafayette, Indiana,	11/95
20.– Department of Civil Engineering, Imperial College, London,	6/95
19.– Stanford University, Palo Alto, California	1/95
18.– Joint Department of Ocean Sciences and Geology, USC, Los Angeles,	12/94
17.– University of California at Los Angeles,	10/95
16.– Hawaiaian Society of Professional Engineers, Kahului, Maui.	5/95
15.– US Army Corps of Engineers, Waterways Experiment Station, Vicksburg, Missisipi,	2/94
14.– Bureau of Meteorology and Geophysics, Jakarta, Indonesia.	6/93
13.– Department of Aerospace Engineering, USC.	3/93
12.– California Institute of Technology, Pasadena, California	2/93
11.– University of California at Berkeley,	1/93
10.– US Army Corps of Engineers, Waterways Experiment Station, Vicksburg, Missisipi,	11/92
9.– University of Washington, Seattle,	10/92
8.– NOAA-Pacific Marine Environmental Laboratory, Seattle, Washington,	2/92
7.– University of Washington, Seattle,	4/90
6.– Clarkson University, Potsdam, New York,	11/90
5.– University of Washington, Seattle,	4/90
4.– Clarkson University, Potsdam, New York,	11/87
3.– Columbia University, New York, New York,	9/86
2.– University of Southern California, Los Angeles,	5/85
1.– University of California at Santa Barbara, Santa Barbara,	5/84

### 13 OTHER APPOINTMENTS, PROFESSIONAL COMMITTEES

32. – President, Natural and Life Sciences Section, Academy of Athens,	2018–present
31.– Environmental Panel, Hellenic National Council on Research and Technology,	2014–2017
30. – Engineering Faculty Council, USC,	2014–2015
29.– Secretary, Hellenic Section of the International Union of Geodesy and Geophysicis,	2011–present

- 28.– The Maria Tsakos Charitable Foundation, Science Board of Directors, 2011–2014
- 27.– President, Committee on the Safety of Marine Activities, Ministry of Energy and Climate Change, 2011–2012
- 26.–The European Academies Science Advisory Council, Working Group on Marine Sustainability, 2013–present
- 25.– National Research Council Committee on the US National Tsunami Hazard Mitigation Program, 2008–2010
- 24.– Department of Commerce Review Panel for NOAA–Pacific Marine Environmental Laboratory, 2008
- 23.– Member of the Environmental Panel, Hellenic National Council on Research and Technology, 2008–2010
- 22.– President, UNESCO’s Hellenic Commission on Tsunamis, 2004–present
- 21.– Member, Hellenic Organization for Earthquake- (ΟΑΣΠ), 2008–2012
- 20.– Chair, UNESCO committee on the evaluation of ITS–PTWS (Pacific Tsunami Warning System), 2004–2008
- 19.– University Search Committee for the Dean of the School of Engineering, 2000–2001
- 18.– Senator, Academic Senate of the University of Southern California, 1998–2000
- 17.– Chairman of the Engineering Faculty Council, USC, 1998–1999
- 16.– Secretary of the Engineering Faculty Council, USC, 1998–1999
- 15.– University Committee on Promotions and Tenure,(The 6 person UCAPT votes on all promotion files throughout USC, after the promotion committees of departments and Schools submit their recommendations.) 1997–1999
- 14.– Representative at Large, School of Engineering, APT Committee (the Appointments, Promotions and Tenure Committee has one member elected from each department and ratifies all new appointments and promotions) , 1995
- 13.– Executive Committee, Department of Civil Engineering, USC, 1995
- 12.– University Athletic Facilities Advisory, USC, 1994–1996
- 11.– Senator, Academic Senate, USC, 1991–1993
- 10.– Engineering Faculty Council, USC, 1992–1993
- 9.– University Student Affairs Committee, USC, 1988–1991
- 8.– University Student Retention Committee, USC, 1989–1990
- 7.– University Bookstore Advisory, USC, 1992–1993
- 6.– Faculty Center Board of Directors, USC, 1988–1990
- 5.– Departmental Recruitment, Seminar, Computing Facilities, USC, 1988–1991
- 4.– Chairman, Graduate Student Council, California Institute of Technology (the GSC is elected body of the graduate students of Caltech), 1982–1984
- 3.– Graduate Student Representative, Faculty Board, California Institute of Technology, (the Faculty Board is the Academic Senate of Caltech), 1982–1984
- 2.– Committees on Graduate Standing, Convocations. Housing. Programs. Alumni Board of Directors, California Institute of Technology, 1981–1985
- 1.– Secretary, Graduate Student Council, California Institute of Technology (the GSC is elected body of the graduate students of Caltech), 1980–1982

## 14 PERSONAL INFORMATION

Member *American Association for the Advancement of Sciences (AAAS)* since 1984, *American Society of Civil Engineers* since 1979, *American Geophysical Union*, since 1986, *American Physical Society* since 1996, *European Geosciences Union* since 2002, *Earthquake Engineering Research Council* (1995–2008, *New York Academy of Sciences* (1986–1996), *Sigma Xi*, *The Scientific Research Society* (1985–2000) and *Chi Epsilon*, *The Engineering Honors Society* (1997–2000).