



ΕΚΠΑ
Α. Π.: 40113
Ημ.: 28/04/2023

ΑΙΤΗΣΗ	ΠΡΟΣ
<p>ΕΠΩΝΥΜΟ: ΣΥΝΟΛΑΚΗΣ ΟΝΟΜΑ: ΚΩΝΣΤΑΝΤΙΝΟΣ ΠΑΤΡΟΝΥΜΟ: ΕΜΜΑΝΟΥΗΛ ΗΜΕΡ. ΓΕΝΝΗΣΗΣ: 21/09/1956 ΙΔΙΟΤΗΤΑ: ΑΚΑΔΗΜΑΪΚΟΣ ΚΑΘΗΓ. ΠΑΝ/ΜΙΟΥ Α.Δ.Τ.: ΑΚ 805305 E-mail: costas@usc.edu</p>	<p>ΕΘΝΙΚΟ ΚΑΙ ΚΑΠΟΔΙΣΤΡΙΑΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ</p>
<p><i>Θέμα: Υποψηφιότητα για τη θέση εξωτερικού μέλους του Συμβουλίου Διοίκησης του Εθνικού και Καποδιστριακού Πανεπιστημίου Αθηνών</i></p>	<p>Με την παρούσα αίτηση:</p> <p>α) υποβάλλω υποψηφιότητα για τη θέση εξωτερικού μέλους του Συμβουλίου Διοίκησης του Εθνικού και Καποδιστριακού Πανεπιστημίου Αθηνών σύμφωνα με την ισχύουσα νομοθεσία στο πλαίσιο της με αριθμ. πρωτ. 17890/28-2-2023 διεθνούς πρόσκλησης για την ανάδειξη των εξωτερικών μελών του Συμβουλίου Διοίκησης του Ιδρύματος,</p> <p>β) αποδέχομαι τους όρους συμμετοχής στην παρούσα και δηλώνω ότι γνωρίζω τις υποχρεώσεις που απορρέουν από την ιδιότητα του εξωτερικού μέλους σε περίπτωση εκλογής μου, καθώς και τις αρμοδιότητες που ασκεί το Συμβούλιο Διοίκησης του Ε.Κ.Π.Α. σύμφωνα με το άρθρο 14 του ν. 4957/2022,</p> <p>γ) δηλώνω ότι συναινώ στη συλλογή και επεξεργασία των προσωπικών δεδομένων μου, όπως αυτά αναφέρονται στην παρούσα πρόταση και στα συνυποβαλλόμενα με αυτήν δικαιολογητικά αποκλειστικά για την αξιολόγηση της αίτησής μου στο πλαίσιο της διαδικασίας της παρούσας.</p>
<p>Τόπος/Ημερομηνία: Αθήνα, 28/04/2023</p>	<p>Ο Αιτών Κωνσταντίνος Συνολάκης</p>
<p>Συνημμένα: α) Αντίγραφο Δελτίου Αστυνομικής Ταυτότητας. β) Πλήρες βιογραφικό σημείωμα. γ) Επιστολή εκδήλωσης ενδιαφέροντος για τη θέση του εξωτερικού μέλους.</p>	<p>KONSTANTINOS OR COSTAS SYNOLAKIS Digitally signed by KONSTANTINOS OR COSTAS SYNOLAKIS Date: 2023.04.28 10:50:07 +03'00'</p>

Curriculum Vitae
 Costas Emmanuel Synolakis
 President, Athens College

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Statistics--at-a-glance: Over 50,000 individual references in Google in English, 15,000 in Google Scholar (GS), > 130+ reviewed papers with over 7,000 ISI citations, ISI h-index 49, GS h-index 66, five edited books and over 250 conference presentations. A substantial part of my non-academic work is public outreach in K-12. I have been a talking head in over ten DISCOVERY, seven BBC, four National Geographic, four History Channel, one ZDF documentaries and over 400 US and international TV appearances in US, Canadian, Turkish, Japanese, Vanuatu, PNG and Greek prime-time interviews. I have given 25 interviews to the *New York Times*, *Washington Post*, *the Wall Street Journal*, *the Economist*, *Der Spiegel*, *New Zürcher Zeitung*, *Le Monde*, and *El Pais*, and over 40 in the *Los Angeles Times*, *Seattle Post*, and *San Francisco Examiner*, > 300 interviews in Greek newspapers. I have penned 11 Wall Street Journal Editorials.

In 1995, I founded the first Tsunami Research Center in a US university. I have obtained >US\$ 7.0 million in individual US and EU grants (not including those with my name, while President of HCMR or Director of TRC). I have given > 100 invited seminars, and about the same number of public outreach talks in primary and secondary schools. I have led or co-organized 35 international tsunami surveys, a map is included on page 24. USC's Viterbi School of Engineering consistently ranks in the top ten in the *US News and World Report* rankings. In 2016, I was elected to the 40-member Academy of Athens, which is the Greek National Academy for letters, arts, law, medicine, engineering and the sciences. In 2019, I was elected in a Secretary of the Academy's Division of Natural Sciences. I am now President of Athens College, the leading non-profit Hellenic American school in Greece. Five of the prime ministers of Greece in the past 40 years have been AC alumni, as well as 5 of the 40 Academy of Athens members. In a period of two years, I raised 30.5M euros (including pledges), the College had raised 29M euros in the period 2015-2020. Since 2019, I am also the President of the National Scientific Committee of Greece on Climate Change (National Climate Council), and we drafted the national climate law. In 2023, I was elected as a member in the National Academy of Engineering in the US.

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, Athens College	2020 to present
Secretary of the Division of Natural Sciences, Academy of Athens	2019 to present
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 Env. Fluid Mech., Technical University of Crete	2004–2020
Professor of Civil, Environmental, Mechanical and Aerospace Engineering, University of Southern California (USC).	1997 to present
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>National Academy of Engineering</i> , USA	2023
<i>The Hamaguchi Award for the Promotion of Tsunami/Coastal Disaster Resilience.</i>	2020
Member, <i>Academia Europaea.</i>	2019
<i>International Coastal Engineering Award of the American Society of Civil Engineers.</i>	2019
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

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121. – Evelpidou, N., Zerefos, Z., Repapis, C., Karkani, A., Polidorou, M., Saltis, G., 2020, Coastal Boulders on the SE Coasts of Cyprus as Evidence of Palaeo-Tsunami Events, *J. Mar. Sci. Eng.* **8**, <https://doi.org/10.3390/jmse8100812>.

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- 119.– Foteinis, S., ten others and Synolakis, C.E., 2019, Spatial and Temporal Heterogeneity of Cs-134 and Cs-137 in Topsoil after the Fukushima Daiichi Nuclear Power Plant Accident and the Importance of Tsunami Debris Management. *Environmental Processes*, **6**(3), 561–579
- 118.– Derahti, M., Dalrymple, R., Okal, E.A., Synolakis, C.E., 2019, Temporal and topographic source effects on tsunami generation, *J. Geoph. Res.- Oceans* **124**(7) 5270–5288.
- 117.– Dogan G.G., 12 others, and Synolakis, C.E., 2019, The 20th July 2017 Bodrum–Kos Tsunami Field Survey, *Pure and Appl. Geophys.* 1–25, doi.org/10.1007/s00024-019-02151-1
- 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., Hanckock, 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.
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- 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.
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- 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.
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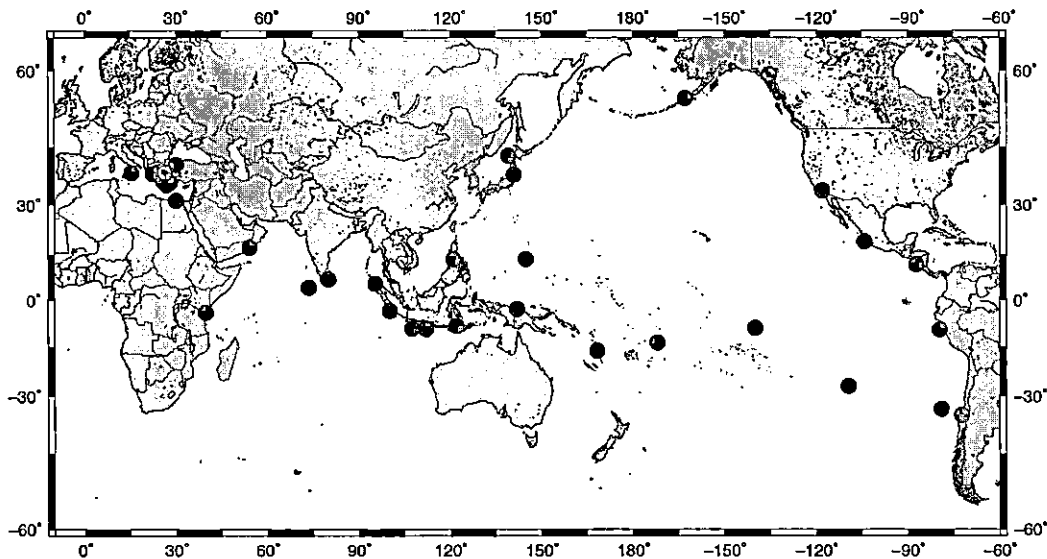
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- 23.- Briggs, M.J., Synolakis, C.E., Harkins, G.S., Kânoğlu, U., and Collidge, A., 1994, Measurements of Tsunami Runup on a Circular Island, *Seism. Res. Let.*, 65 (1), page 26, Pasadena, California.
- 22.- Titov, V.V., Synolakis, C.E., 1994, Numerical 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.



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

9 FIELD SURVEYS FOR EARTHQUAKES AND TSUNAMIS

36.- The 30 October 2020 Samos, Greece tsunami,	10/20
35.- The 1 May 2020 Ierapetra, Greece tsunami,	5/20
34.- The 24 December 2018 Krakatau tsunami,	1/19
33.- The 28 September 2018 Palu tsunami,	11/18
32.- The 21 July 2017 Kos, Greece tsunami,	7/17
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 Mentawais, 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 tsunam,	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 ¹ ,	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 ² ,	3/96
9.- The 9 October 1995, Manzanillo, Mexico earthquake and tsunami,	10/95
8.- The 15 June 1995, Aigion, Greece earthquake and tsunami,	6/95

¹CES organized the US team, student Burak Uslu and post-doc Jose Borrero attended

²Organized US team, students Utku Kanoğlu and Jose Borrero attended

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 ³ ,	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

- 13.– Nikos Maravelakis (2020) *Field measurements and modeling of the harbor resonance in the Venetian Harbor of Chanea, Greece*, Διδακτορική Διατριβή, Πολυτεχνείο Κρήτης, Χανιά, Ελλάδα. 180pp, in Greek.
12. – Vassilis Skanavis (2020) *Long wave amplification in the shadow zone of islands*, Ph.D. Thesis, University of Southern California, Los Angeles, California, 141pp.
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, in Greek.
- 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, in Greek.
- 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.
- 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

2019–2019 *Field Survey of the 27 September 2018 Sulawesi Tsunami*, National Science Foundation, CMMI–1906162, \$101,261.

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.

³Student Vasily Titov attended.

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 0901081, 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 Sloshing 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

105. - Association of Insurance Agencies, (Keynote Lecture)	12/2019
105. - ACLCF Plastics in the Ocean Workshop (Keynote Lecture)	10/2019
104.- University of California, Los Angeles (UCLA),	11/2018
103.- National University of Singapore,	5/2018
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 Supérieure,	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.- Hawaiian Society of Professional Engineers, Kahului, Maui.	5/95
15.- US Army Corps of Engineers, Waterways Experiment Station, Vicksburg, Mississippi,	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, Mississippi,	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

34. - Chairman, National Committee on Climate Change, Greece	2019-present
33. - Secretary, Division of Natural and Life Sciences, Academy of Athens,	2019-present
32. - President, Natural and Life Sciences Section, Academy of Athens,	2018-2019
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 Geophysics,	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- (OASΠ), 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).

Citizen of the United States and of Greece. Married with Katerina Konidari, we have a 10 year old daughter.



Αθήνα, 28 Απριλίου 2023

Αξιότιμα Μέλη του Συμβουλίου Διοίκησης
του Εθνικού και Καποδιστριακού Πανεπιστημίου Αθηνών,

Είναι ιδιαίτερη τιμή για μένα να σας υποβάλω την αίτησή μου για εκλογή ως εξωτερικού μέλους στο Συμβούλιο Διοίκησης του Εθνικού και Καποδιστριακού Πανεπιστημίου Αθηνών (ΕΚΠΑ). Ο λόγος που σας υποβάλλω αυτή την αίτηση, είναι η πεποίθησή μου ότι μπορώ να βοηθήσω στην περαιτέρω ανάπτυξη της εξωστρέφειας του ΕΚΠΑ, το οποίο τα τελευταία χρόνια έχει κάνει γιγαντιαία βήματα στο να γίνει πάλι ένα από τα κορυφαία πανεπιστήμια στον κόσμο. Θα εργαστώ, ώστε το Συμβούλιο να διευκολύνει την αύξηση του ρυθμού ανόδου των επιδόσεων του ΕΚΠΑ. Στην ουσία, όπως όλοι γνωρίζετε, το ΕΚΠΑ έχει καταπληκτικούς καθηγητές και ιδιαίτερα αξιόλογους φοιτητές, η πλειονότητα των οποίων είναι από τους καλύτερους στην Ελλάδα, σημειώνουν μεγάλες επιτυχίες στα πανεπιστημιακά ιδρύματα της Ελλάδας και του εξωτερικού, ως ερευνητές αλλά και ως επαγγελματίες στις θεωρητικές σπουδές, στα γράμματα, στην επιστήμη, στις τέχνες και στην τεχνολογία. Η πρόκληση είναι να παραμείνει το ΕΚΠΑ στην αιχμή της πανεπιστημιακής εκπαίδευσης, να συνεχίσει να ανεβάζει τον ερευνητικό πήχυ στην Ελλάδα και παγκοσμίως, ακόμη και αν υπάρχει θεμιτός ή και αθέμιτος ανταγωνισμός στο εσωτερικό και στο εξωτερικό.

Παρακαλώ επιτρέψτε μου να σας περιγράψω την πανεπιστημιακή μου καριέρα στην Αμερική. Ξεκίνησα ως επίκουρος καθηγητής το 1985, και στα προηγούμενα 38 χρόνια, ανέπτυξα (τουλάχιστον στις ΗΠΑ) σε μεγάλο βαθμό την επιστήμη της μελέτης των ακραίων κυματικών φαινομένων σε παραλίες, όπως τα τσουνάμι και τα υπερβαρυντικά κύματα, και στη συνέχεια τη μελέτη ακραίων φαινομένων στις παράκτιες ζώνες. Αξίζει να σας αναφέρω ότι όλες οι πινακίδες που δείχνουν διόδους διαφυγής στις παραλίες της Καλιφόρνιας είναι αποτέλεσμα των ερευνών του εργαστηρίου μου στο Πανεπιστήμιο της Νότιας Καλιφόρνιας. Πολλά επιπλέον στοιχεία για την πανεπιστημιακή μου έρευνα και διδασκαλία θα βρείτε στο βιογραφικό σημείωμα που σας υποβάλλω. Ήμουν ιδιαίτερα τυχερός ως επιστήμονας και γενικά οι ερευνητικές μου δραστηριότητες έχουν αναγνωρισθεί από την παγκόσμια επιστημονική κοινότητα.

Θα ήθελα εδώ να σας περιγράψω εν συντομία την πείρα μου στη διοίκηση. Ήδη από φοιτητής στο Τεχνολογικό Ινστιτούτο της Καλιφόρνιας (California Institute Technology) ήμουν μέλος της Συγκλήτου Διοίκησης (Faculty Board) ως εκλεγμένος Πρόεδρος του Συλλόγου Μεταπτυχιακών Φοιτητών. Αργότερα, στο Πανεπιστήμιο της Νότιας Καλιφόρνιας ήμουν για περίπου δεκαπέντε χρόνια αιρετό μέλος της ενδεκαμελούς Συγκλήτου της Πολυτεχνικής Σχολής (Faculty Senate) ή της Πανεπιστημιακής Συγκλήτου (University Senate) και, για ένα χρόνο, Πρόεδρος της Συγκλήτου της Πολυτεχνικής Σχολής. Έχω συμμετάσχει σε δεκάδες επιτροπές της Συγκλήτου, αλλά και του Πανεπιστημίου, από τις οποίες οι πιο σημαντικές ίσως ήταν η Επιτροπή Διορισμών και Προαγωγών και η Οικονομική Επιτροπή.

Μετά από αυτή την διοικητική περίοδο, υπήρξε ραγδαία ανάπτυξη της έρευνάς μου στο πεδίο, λόγω αλληπάλληλων φυσικών καταστροφών και αυτό δεν μου επέτρεπε την ουσιαστική ενασχόλησή μου με τη διοίκηση του Πανεπιστημίου. Μάλιστα οι περισσότερες δημοσιεύσεις μου με παγκόσμια απήχηση είναι την περίοδο 1996-2008. Από το 2011 έως

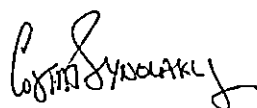
το 2013, επέστρεψα στην Ελλάδα και διετέλεσα Πρόεδρος του Ελληνικού Κέντρου Θαλάσσιων Ερευνών (ΕΛ.ΚΕ.Θ.Ε.), όπου απέκτησα χρήσιμη και ενδιαφέρουσα εμπειρία στην ελληνική επιστημονική πραγματικότητα και στη διαχείριση του ελληνικού ερευνητικού ιστού. Το διάστημα αυτό μου ανέδειξε την αναγκαιότητα της ανεξαρτοποίησης της διαχείρισης ερευνητικών προγραμμάτων από το Δημόσιο, αλλά και την άμεση ανάγκη εξεύρεσης πόρων για περαιτέρω αύξηση του αριθμού των φοιτητών που κάνουν πρακτική εξάσκηση, αλλά και της κινητικότητας των ερευνητών. Ερχόμενος από το εξωτερικό, μου είχε κάνει ιδιαίτερη εντύπωση η παράδοση θεώρηση της Πολιτείας ότι η φοίτηση επιπλέον φοιτητών στις πανεπιστημιακές σχολές ή η υιοθέτηση ενδο-ελληνικής κινητικότητας τύπου Erasmus δεν επέβαλλε επιπλέον κόστος στα πανεπιστήμια ή στα ερευνητικά κέντρα. Εντύπωση επίσης μου έκανε η επιλεκτική υποστελέχωση σχολών και τμημάτων.

Από τον Αύγουστο 2020 διετέλεσα Πρόεδρος του Κολλεγίου Αθηνών (ΚΑ), ενός μη κερδοσκοπικού οργανισμού πρωτοβάθμιας και δευτεροβάθμιας εκπαίδευσης με περίπου 600 καθηγητές και 300 άτομα διοικητικού και εργατοτεχνικού προσωπικού. Η θητεία μου στο ΚΑ που λήγει στις 31 Αυγούστου 2023, μου επέτρεψε να κατανοήσω καλύτερα τον ρόλο των μη κερδοσκοπικών σχολείων, αλλά και τον ρόλο των δημοσίων σχολείων αριστείας στην προετοιμασία της κοινωνίας του μέλλοντος. Επίσης, μου κατέδειξε την ανάγκη άμεσης κοινωνικής διεύρυνσης των μη κερδοσκοπικών σχολείων, κάτι που ξεκίνησα, και στη θητεία μου στο ΚΑ όπου φοιτούν πλέον με υποτροφίες πέντε προσφυγόπουλα, δύο παιδιά με ειδικές ανάγκες και δεκαπέντε παιδιά από την ελληνική περιφέρεια, ενώ φέτος προγραμματίζεται να εισαχθούν τρία ακόμα προσφυγόπουλα, δεκατρία παιδιά από την ελληνική περιφέρεια και ένα παιδί με ειδικές ανάγκες, ανάλογα με την επιτυχία τους στις εισαγωγικές εξετάσεις.

Για το όραμά μου σχετικά με την Έρευνα και τη Διοίκηση, θα αναφερθώ μόνο στο γεγονός ότι είμαι Τακτικό μέλος σε δύο Ακαδημίες, στην Ακαδημία Αθηνών και στην Εθνική Ακαδημία Μηχανικών στην Αμερική, και τολμώ να πω ότι είμαι ο μόνος Έλληνας που είναι Τακτικό μέλος και στις δύο αυτές Εθνικές Ακαδημίες. Την Ακαδημία Αθηνών τη γνωρίζετε καλά, τις Εθνικές Ακαδημίες στην Αμερική, δηλαδή την Εθνική Ακαδημία Ιατρικής, την Εθνική Ακαδημία Επιστημών και την Εθνική Ακαδημία Μηχανικών τις γνωρίζω επίσης καλά και πιστεύω ότι η συμμετοχή μου στις Ακαδημίες και στις Επιτροπές τους θα δώσει σημαντικές και απροσδόκητες ευκαιρίες στο ΕΚΠΑ, στους καθηγητές του, αλλά και στους φοιτητές του, για περαιτέρω εξωστρεφείς επαφές, κοινές ερευνητικές και επαγγελματικές δραστηριότητες και φυσικά ανάπτυξη της μεγάλης εικόνας για την παγκόσμια τριτοβάθμια εκπαίδευση.

Δεσμεύομαι να αναλώσω τις δυνάμεις μου και να βοηθήσω το Συμβούλιο και τις Πρυτανικές Αρχές, ώστε το ΕΚΠΑ να γίνει ακόμη καλύτερο ως προς τη συμβολή του στην κοινωνία και στην επιστήμη και να αναπτυχθεί με ρυθμούς που θα του επιτρέψουν να ξεπεράσει πολλά πανεπιστήμια του εξωτερικού που προς το παρόν μπορεί να έχουν ίσως μεγαλύτερη παγκόσμια φήμη.

Με συναδελφικούς πανεπιστημιακούς χαιρετισμούς,



Κώστας Συνολάκης
Καθηγητής, Πανεπιστήμιο Νότιας Καλιφόρνιας
Γραμματέας, Τάξη Θετικών Επιστημών, Ακαδημία Αθηνών
Πρόεδρος, Κολλέγιο Αθηνών