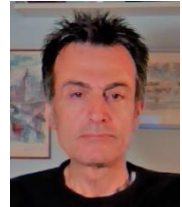

Dr John N Karadelis,
BSc, MPhil(Eng), PhD, AdvCert(Math), ACI, TEE.
Senior Lecturer (Asst Professor) in Applied Computational Mechanics



TEACHING DUTIES/INTERESTS.

- Computational Mechanics (MEng/MSc level)
- Civil Engineering Dynamics - Vibration Analysis (MEng/MSc level)

RESEARCH INTERESTS

- Stress/structural analysis and design beyond the codes of practice, using advance computational methods and techniques.
- Domain Decomposition Methods for Large Civil Engineering Structures
- Structural Health Monitoring, Damage Detection, Classification and Prognosis of Damaged Structures
- Structural Dynamics and Vibration of Systems
- Stability, Integrity, Resilience, Reliability, Risk Analysis, Assessment, Performance, Prediction and Rehabilitation of Structures

RESEARCH (FUNDED)

- 2004-09, 'GreenTop'. Repair and Strengthening of Concrete Pavements (Aggregate Industries).
- 2010, Research Sabbatical Fellowship, (Coventry University).
- 2009-13, Optimum Design for Sustainable, Bonded Concrete Overlays (EPSRC + Aggregate Ind.).
- 2014, Research Sabbatical Fellowship (Coventry University).
- 2016-2020, Non-invasive Damage Detection & Classification of the Bond Beneath Overlays in Pavements

SPECIAL LECTURES, PRESENTATIONS, CONFERENCES.

- **Invited Presenter:** "Non-destructive testing of concrete pavements, using Falling Weight Deflectometer techniques". *The Annual Conference of British Cement Association (BCA)*, University of Leeds, (1993), UK.
- **Invited Presenter:** "The dynamic response of concrete pavements, as an index of their structural integrity". *The Annual Workshop on Structural Dynamics* organised by STRUCOM Ltd and The University of Nottingham, (1994), UK.
- **Invited Speaker:** Precast Concrete Grandstands under Human Induced Vibrations. *The Annual General Meeting of the Joint Working Group (JWG) on Dynamics of Stadia Structures*, organised by the JWG of the IStructE, (2003), London, UK.
- **Invited keynote Speaker:** "State-of-the-Art Review of Mathematical Models for Concrete at the Annual Seminar on Finite Element Analysis of Concrete Structures", organised by NAFEMS (National Agency for Finite Element Methods and Standards) and the IStructE, London, (2013), UK.
- **Invitation:** by Prof. Imad Al-Qadi, University of Illinois, To set up the *road-map* for Pavement Engineering (teaching & research) for the next 30 years (Only 20 academics from all over the world were invited).
- **Invitation:** To deliver a number of lectures/seminars on Resilient Structures and Infrastructure at Nazarbayev University, Astana, Kazakhstan (March 2016).
- **Invitation:** To join the Technical/Organising Committee of the *4th International Chinese – European Workshop (CEW2016) on Functional Pavement Design*. Delft University of Technology, (June/July 2016), The Netherlands.
- **Invitation:** To Chair a Session at the *4th CEW2016 on Functional Pavement Design*, The Technical University of Delft, (June/July 2016), The Netherlands.
- **Invitation:** To join the Scientific Committee of the *10th International Conference on the Bearing Capacity of Roads, Railways and Airfields*, (June 2017) Athens, Greece
- **Invitation:** To chair a session at the *17th Annual International Conference on Asphalt, Pavement Engineering and Infrastructure*, (21-22 February 2018), Liverpool UK.
- **Invitation:** To deliver a series of EU-funded Seminars at the University of Patra, Greece, based on my concrete pavement engineering research (May/June 2018),.
- **Invitation:** To deliver a series of lectures on FEA at Democritus University, Thrace, Greece Summer School (*Unbound Prometheus.com*) (July 2018)
- **Invitation** (Key-note speaker): To "9th International Advances in Applied Physics & Materials Science Congress & Exhibition" October 22-28, 2019, Blue Lagoon, Fethiye / Mugla-TURKEY
- **Invitation:** To join the Organising and Scientific Committees of the "9th International Advances in Applied Physics & Materials Science Congress & Exhibition" Oct 22-28, 2019, Blue Lagoon, Fethiye / Mugla-TURKEY

PROFESSIONAL MEMBERSHIPS / ACTIVITIES

- Reviewer of EPSRC Research Proposals
- Editor, *Journal of Civil Engineering Research (JCER)*, Scientific and Academic Writing, USA
- Guest Editor, special issue: *Computer Simulations in Civil Engineering*, JCER

- Editor, *Composite Materials Research*, PiscoMed Publisher, Singapore.
 - Editor, *Developments in the Built Environment*, Elsevier.
 - Reviewer of several engineering journals [*Int. Journal of Construction and Building Materials*, *Proc. of the ICE (Sustainability, Structures and Buildings, Engineering and Computational Mechanics)*, *Arabian Journal of Science and Engineering*, *Int. Journal of pavement engineering*, many others].
 - Member of the Engineering Institution, Greece (TEE & Eur-Ing, chartered engineer).
 - Member of the American Concrete Institute (ACI): (2013 – 2016)
 - AMICE of The Institution of Civil Engineers, UK
 - Member of the National Technical Committee (NTC) of the British Board of Agreement (BBA) for the *European harmonisation and standards for attachments and connections for structural timber*: (2002 –2007).
 - Member of the Qualitative Analysis of Structural Behaviour Study Group of IStructE.
 - Member of the British & International Association for Computational Mechanics (IACM)
 - Member of the Society of Earthquake & Civil Engineering Dynamics
 - Member of the Academy of Pavement Scientists & Engineers (APSE), USA.
 - Member of the International Association of Engineers
-

Own Websites (main)

https://www.researchgate.net/profile/John_Karadelis

<https://scholar.google.co.uk/citations?user=s8Nm8fwAAAAJ&hl=en>

<https://pureportal.coventry.ac.uk/en/persons/john-karadelis>

<http://orcid.org/0000-0001-7206-4650>

Outside work:

I enjoy car-racing but also music (play the guitar), and I collect rare coins.

Also, I like to keep fit. I have been a member of my local leisure centre (gym) for many years.

I am a member of the Hellenic Society of National Heritage with special interest in Greek neoclassical architecture.

A List of my publications can be provided on request.