

BRIEF STATEMENT
Ir. Ong Ching Loon, P.J.K.
The Institution of Engineers, Malaysia (IEM)



The Institution of Engineers, Malaysia (IEM) has been a long standing member of WFEO and I believe it is time for IEM to re-establish our representation in the Executive Committee of WFEO. Recognising that the post is rather heavy and challenging, I am confident that with the support and involvement, active participation and collaborative efforts of every WFEO Council, we will be able to achieve greater outcome and impact by working together as one.

The goals of my nomination to the Executive Council are:

- Integrating the engineering education accreditation
- Elevating and fostering equality for women in science and engineering
- Safeguarding the mobility of engineers
- Strengthening the engineering and technological activities in promoting sustainable economic growth and social welfare

I shall strive to carry out this honorable responsibility with utmost care and diligence emulating and continuing the good works of our previous members of the Executive Council. Therefore, I humbly offer myself as a candidate for election into the WFEO Executive Council where I pledge to provide my services and my utmost commitment and support to the organisation as well as to the Executive Council to push forward the objectives of WFEO and to help bring this organisation to greater heights, collectively for the benefit of the engineering profession in the world.

Thank you.

Ir. Ong Ching Loon, P.J.K.
17 February 2025

SHORT CV

Ir. Ong Ching Loon *P.J.K*



Ir. Ong Ching Loon is the 36th President of The Institution of Engineers, Malaysia (IEM) for sessions 2020/2021 and 2021/2022.

Prior to being elected as the President of the Institution, he was IEM's Deputy President, Vice President, Council members and served as the Chairman of the Standing Committee on Finance, Corporate Affairs, Board of Management – IEM Education Fund and others. During his presidency, notably, Ir. Ong was the Chairman of Special Committee on COVID-19, Position Papers Coordinating Committee, Council and Excomm.

Ir. Ong was a Member of the Board of Engineers Malaysia (BEM) from 2019 to 2022 and Chairman of Application Committee and BEM's *Tokoh Kejuruteraan* and *Tokoh Muda* Awards sub-committee since its inception. He is also the Vice President of Malaysia Association of Energy Service Companies (MAESCO), a Past President of The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Malaysia Chapter. Since 2022, Ir. Ong is the Council Member of ASHRAE representing ASHRAE Region XIII which comprises of chapters of 10 countries in East Asia and ASEAN and 2 groupings in China. Ir. Ong is a Board Member of Kiwanis Down Syndrome Foundation (KDSF).

He holds a MBA from University of Bath, UK and a B.Sc. (Hons) in Mechanical Engineering. Ir. Ong is a Professional Engineer (PE) with Practicing Certificate, an ASEAN Chartered PE (ACPE), an Asia-Pacific Economic Cooperation (APEC) and International PE, a Registered Foreign PE of the kingdom of Cambodia, a Certified Measurement & Verification Professional of Association of Energy Engineers (AEE) USA, a Registered Electrical Energy Manager, a Certified Energy Management System Expert of United Nations Industrial Development Organization (UNIDO), among others.

During his tenure as President, Malaysia was hit by the COVID-19 Pandemic. With the support of Council and Secretariat, Ir. Ong and the Excomm engaged Ministry of Works (MoW), Ministry of International Trade and Industry (MITI), Ministry of Housing and Local Government (KPKT), National Economic Action Council (MTEN), Ministry of Finance (MoF) and Construction Industry Development Board (CIDB) extensively on the numerous challenges and risks faced by engineers and provided recommendations among others on threshold of stimulus packages for professional services and post-Covid business recovery plans on restoring investor confidence, increase domestic demand and supply chain sustainability.

Gratefully, upon our appeal, MoW wrote to Malaysian National Security Council (NSC) requesting permission for engineering consultancy firms not to be categorised under essential services to operate under Phase 1 of Recovery Plan.

Under the IEM presidency of Ir. Ong, unprecedentedly, IEM organised more than 560 webinars with 1,288 CPD hours which were attended by about 50,000 engineers to up-skill and re-skill.

Ir. Ong also initiated the “*ENGINEER – an event of IEM Convention*” during his tenure. *ENGINEER* is IEM own brand of convention for entire eco-system of engineering for Malaysia. In its 3rd year since the inaugural convention in 2022 at KLCC, “*ENGINEER*” has successfully promoted the technologies and the profession locally and internationally besides the parents, students and the public.

In recognition of his services nationally, Ir. Ong was conferred the Meritorius Service Medal also known as *Pingat Jasa Kebaktian (PJK)* by the Governor of Penang in 2005. In 2017 he received commendation from Economic Planning Unit (EPU) in Energy Sector of the Prime Minister’s Department for his services as its Technical Advisor for a Demand Side Management Study.

Regionally, in 2016 and 2019, the Governing Board of ASEAN Federation of Engineering Organisations (AFEO) conferred Ir. Ong with the Honorary Member and Honorary Fellow respectively for his contributions to AFEO and as the Secretary General of AFEO. In recognition of his years of contribution towards IEM and the engineering profession, the IEM Council confers to Ir. Ong Ching Loon, the IEM Honorary Fellow award for 2024.

Internationally, he was awarded the Presidential Award of Excellence, Star Award & Special Citation from ASHRAE, USA in 2006.

Ir. Ong is the Managing Director of Cofreth (M) Sdn Bhd and its group of companies. The group specialises in consultancy and out-sourcing services of Energy Efficiency, Facilities Management and Green Building Commissioning for industrial plants and commercial buildings.

He is currently serving in the IEM Council as Past President.



PERSONAL STATEMENT - FERNANDO DE ALMEIDA SANTOS

FOR THE POSITION OF NATIONAL MEMBER REPRESENTATIVE

The 21st century presents humanity with profound challenges and unprecedented opportunities. Issues such as climate change, environmental degradation, urbanization, and resource depletion demand urgent action and innovative solutions. At the same time, a significant portion of the global population still lacks access to basic infrastructure, clean water, sanitation, and energy. These disparities emphasize the critical need for engineers to lead the way in creating sustainable, inclusive, and resilient societies.



As President of the Portuguese Engineers Association (Ordem dos Engenheiros) and with a career spanning over three decades, I am deeply committed to advancing the engineering profession as a cornerstone of socio-economic development and environmental sustainability. Throughout my professional journey, I have witnessed the transformative impact of engineering on communities, industries, and nations. I have dedicated my career to fostering excellence in engineering, from my leadership roles in the Ordem dos Engenheiros to my contributions as an academic, entrepreneur, and advocate for engineering education and innovation.

The World Federation of Engineering Organizations (WFEO) has a pivotal role in addressing the global challenges we face. As a unifying voice for engineers worldwide, WFEO must lead efforts to build engineering capacity, enhance the profession's visibility, and contribute meaningfully to the United Nations Sustainable Development Goals (SDGs). This requires fostering collaboration among governments, academia, and industry to create region-specific responses that empower communities and drive sustainable development.

I bring to this nomination a strong background in engineering leadership and international collaboration. Having served in elected positions within the Ordem dos Engenheiros for over 28 years, including as its current President, I have consistently championed initiatives that promote engineering excellence, professional mobility, and sustainable practices. My professional experience as the founder and CEO of a prominent engineering firm, my academic contributions as a visiting lecturer, and my leadership roles in engineering organizations have provided me with a unique perspective on the intersection of technology, policy, and society.

As WFEO National Member Representative, I would leverage this extensive experience to advance WFEO's mission and priorities. I firmly believe that engineering must be at the forefront of global efforts to combat climate change, promote clean and efficient energy, ensure water and food security, and build resilient infrastructure. It is equally vital to address the persistent inequalities in access to technology and engineering education, ensuring no one is left behind in the pursuit of sustainable development.

In alignment with WFEO's vision, I am committed to driving initiatives that enhance engineering education, foster professional development, and promote gender equality and diversity within the profession. I will actively support WFEO's Engineering 2030 Plan, recognizing its strategic importance in achieving the SDGs.

The engineering profession has always been a catalyst for progress. As a candidate for this position, I stand ready to contribute my expertise, passion, and leadership to ensure that WFEO continues to be a driving force for a sustainable, inclusive, and innovative world.

Fernando de Almeida Santos

PRESIDENT OF THE PORTUGUESE ENGINEERS ASSOCIATION



ORDEM
DOS
ENGENHEIROS



QUALIFICATIONS AND EXPERIENCE

Fernando de Almeida Santos, the President (Bastonário) of the Portuguese Engineers Association (Ordem dos Engenheiros de Portugal, OEP), is a highly distinguished Civil Engineer with a career spanning over 30 years.

His extensive experience and exemplary service to the engineering profession, both nationally and internationally, make him an exceptional **candidate for the position of WFEO National Member Representative**.

PROFESSIONAL BACKGROUND

Fernando de Almeida Santos is a Civil Engineer, Senior Member, and Specialist in Construction Safety, recognized by the Portuguese Engineers Association. His academic and professional achievements include:

- **Degree in Civil Engineering (1991)** - University of Minho (UMinho);
- **Medal of Honor from UMinho (1991)** - Recognized for his role as Vice-President of the Academic Association of UMinho (1988-1991);
- **MBA in Construction and Real Estate Management (2000)** - Joint program from UMinho, the Faculty of Engineering of the University of Porto (FEUP), and the Catholic University of Portugal;
- **Specialization in Construction Safety Management and Coordination (2001)** - Instituto Superior Técnico (IST), Lisbon;
- **High Business Leadership Program (PADE, 2009)** - AESE Business School in Lisbon;
- **Award-Winning Engineer** - Recipient of the 1st National Prize Agostinho Roseta from the Portuguese Ministry of Labour and Social Solidarity (MTSS) in 2004;
- **Career Alumni Award (2018)** - Honored by UMinho for his outstanding contributions to the engineering field;
- **Medal of Honor (2023)** - Awarded by the Colegio de Ingenieros de Caminos, Canales y Puertos (CICCP) of Spain for his contributions to civil engineering.

Professionally, Fernando de Almeida Santos has held notable positions:

- **Founder and President of TABIQUE (2000–2020)** - A leading engineering firm specializing in project management, supervision, and safety coordination. He currently serves as a Non-Executive Administrator;
- **Senior Engineer at ENGIL (1991–2000)** - Held various roles in Planning, Cost Control, Project Management, and Construction Safety;
- **Visiting Lecturer (2003–2018)** - Taught courses in Construction Management at UMinho, FEUP, IST (FUNDEC), and the Polytechnic Institute of Cávado and Ave (IPCA).

Fernando de Almeida Santos

PRESIDENT OF THE PORTUGUESE ENGINEERS ASSOCIATION



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SERVICE TO THE PORTUGUESE ENGINEERS ASSOCIATION

Fernando de Almeida Santos has devoted **28 years to the Portuguese Engineers Association** in various elected leadership roles, including:

- **President (Bastonário) of the Portuguese Engineers Association (2022–2025);**
- **National Vice-President (2016–2022);**
- **President of the Northern Regional Board (2010–2016);**
- **Secretary of the Northern Regional Board (2004–2010);**
- **District Delegate for Braga (2001–2004);**
- **Deputy District Delegate for Braga (1997–2001).**

This extensive trajectory of service has culminated in his **unopposed candidacy for the presidency of the Portuguese Engineers Association for the 2025–2028 term**, reflecting the trust and respect he commands within the engineering community.

OTHER LEADERSHIP ROLES

In addition to his professional and institutional contributions, Eng. Fernando de Almeida Santos holds or has held several prominent positions:

- **Member of the General Council of the Universidade Nova de Lisboa (2024–2026);**
- **Administrator of the Fundação da Construção (2024–2027):** Representing the Portuguese Engineers Association;
- **President of the Association of UMinho Alumni (1994–1996).**
- **Organizer of LISBONCES 2019 – Lisbon Civil Engineering Summit, which brought together the annual international assemblies of the World Council of Civil Engineers, European Council of Civil Engineers, European Council of Engineers Chambers, and the Engineering Association of Mediterranean Countries;**
- **Secretary-General of the CECPC (2013–2021) – Council of Professional Associations of Civil Engineers from Portuguese- and Spanish-Speaking Countries;**
- **Founder and Vice-President of the International Council of Portuguese-Speaking Engineers (since 2023);**
- **Organizer of the WORLD ENGINEERING DAY for the World Federation of Engineering Organizations, held in Lisbon in 2024.**

COMMITMENT TO WFEO

As a highly respected figure in the engineering profession, Eng. Fernando de Almeida Santos brings unmatched qualifications, leadership experience, and a collaborative spirit to his candidacy for WFEO National Member Representative. His dedication to fostering international cooperation and promoting the engineering profession globally aligns with WFEO's mission and objectives, making him an ideal candidate for this prestigious role.

Letter of Acceptance of Nomination WFEO Executive Council

I, **Heru Dewanto**, hereby formally accept the nomination by the The Institution of Engineers, Indonesia (PII), the National Member representing **Indonesia**, to be a candidate for election to the **Executive Council of the World Federation of Engineering Organizations (WFEO)** for the term **2025–2029**.

It is an honor to be considered for this position, and I am fully committed to contributing my experience, leadership, and dedication to support WFEO's mission in advancing engineering for sustainable development and addressing global challenges.

Should I be elected, I pledge to work collaboratively with all members of the Executive Council and the broader WFEO community to strengthen the role of engineering in improving quality of life worldwide.

Thank you for this opportunity and your trust in my candidacy.

Sincerely,



Heru Dewanto



HERU DEWANTO

Educational and Competency Attainment

A Bachelor of Civil Engineer from Yogyakarta's Universitas Gajah Mada. Obtained Ir (Insinyur/Engineer) degree from ITB Bandung. Obtained scholarships to complete his Post-Graduate Study in Railways and Public Transport in Universitat Innsbruck Austria, and Master-degree course in Transport Planning and Engineering from Great Britain's Leeds University. Earned Doctoral degree from the University of Indonesia (UI) in Strategic Management with thesis "The rise of Non-market capability to increase Investment Performance of Indonesia's electrical utility firms".

Obtained Advanced Professional Engineer (PE) from the Institution of Engineers Indonesia (PII), Certified PE from ACPE (ASEAN Chartered Professional Engineer), and Certified PE from APEC Engineer Register.

LEMHANNAS RI PPRA 64 (Program Pendidikan Reguler) Angkatan 64, a school of government for national leaders organized by the Indonesian Government.

Permanent lecturer at Indonesia Defense University (Universitas Pertahanan RI) majoring in Strategic Defense Management. Lecturer at University of Indonesia majoring in Strategic Management.

Chairman of the Board of Director ITI (Insitutute Technology Indonesia) Foundation, established in 1984 by former President of Indonesia BJ Habibie.

Organization Leadership

Vice Chairman, Indonesian Chamber of Commerce, and Industry (KADIN), Education and Culture.

International Consultative Committee member, Chinese Society of Engineers, PRC.

Immediate Past President of PII (the Institution of Engineers Indonesia), Past President of AEESEAP (Association of Engineering Education in Southeast, East Asia, and the Pacific), Past Chairman of AFEO (ASEAN Federation of Engineering Organization), and Vice President of AAET (ASEAN Academy of

Engineering and Technology), Council member of FEIAP (Federation of Engineering Institution in Asia and the Pacific), former Secretary General and Chair of the Board of Expert of MKI (Indonesian Electrical Power Society) and Chair of Board Advisors of APLSI (Association of Indonesian independent Power Provider), former Board Member of Britcham (British Chamber of Commerce).

Professional Leadership

Special Adviser to Coordinating Minister for Economic Affairs, Economic Development and Competitiveness (2022-2023)

Has over 3 decades of professional experience in leading national and multi-national Infrastructure corporations. Has handled a wide range of Infrastructure Projects, including Power Plant, Toll Roads, Railway, LRT, Waste and Water Management, and multi-storey Housing. Latest assignment was the President Director of Cirebon Power, a Marubeni led multi-national company, pioneering the investment and operation of 1x1000MW Ultra-Supercritical Power Plant and 1x660MW Supercritical Clean Coal Power Plant in Cirebon West Java, at a value of 3 billion USD. Working with a vision of Sustainable Development through Clean Coal Technology, put him in the center of the 35GW Mega Project.

Former CEO of Indika Power, a sub-holding of Indika Energy Tbk. in energy infrastructure. Vice President Director of Cirebon Electric Power (CEP), Director of Cirebon Power Services (CPS).

Managing Director of Griyaton Indonesia, a wall and slab precast Industry. President Director of Rekainfra International, an Infrastructure consultant and developer. Director of CMMP (Citra Multi Moda Persada). Commissioner of Sarana Jaya.

Entrepreneurship

Founder and Chairman of Markija Berdaya, a pioneering social entrepreneurship aims to upskilling Indonesian vocational students and graduates by sending them to work at industries in European countries and making their working experience as part of study curriculum in obtaining their degree and Profesional Engineer (PE) certificates. The program has successfully sent 1644 students within 18 months since commencement (2022-2024). Has recently sold out all shares in the company and exited from the company in July 2024.

Founder and Chairman of Airmas Ilthabi Teknologi (Aitek Group) together with the Habibie family, a 'niche technology' provider, agencies and distributor in aviation, transportation, and public works sectors. Aitek Group pioneered the implementaion of Indonesia's and southeast Asia's first underground Ground Support System (GSS) at Terminal 3 Ultimate Cengkareng Airport, new Bali Airport, new Yogya Airport and Sepinggan Airport.

Awards and Fellowships

Recently awarded as 'Engineer of the Year 2021' by Federation Engineering Institution of Asia and the Pacific (FEIAP) for his role in transforming engineering system in Indonesia and his contribution to engineering community in the region.

Lifetime Achievement Award Alumni from Civil Engineering Gadjah Mada University Almamater.

Led Cirebon Power to global, regional and national awards: ASEAN Coal Award 2013 (Clean Coal Use Technology) from ASEAN Energy Minister Summit 2013, Asian Power Awards 2016 (Coal Power Project of the Year) from Asian Power Magazine, and more recently Platinum Award 2018 from Indonesia Sustainable Development Award (ASDA) and TOP Leader on CSR commitment 2018 from Business News Indonesia, and Indonesian Best Electricity Award 2018 as Best Environmentally Concerned Company and Green Era Sustainability International Award 2019.

Fellow, FEIAP (federation of Engineering Institution is Asia and the Pacific).
Honorary Fellow, AFEO (ASEAN Federation of Engineering Organization).
Founding Fellow, AAET (ASEAN Academy of Engineering and Technology).
Fellow, Swede-Rail.

British Chevening Award.
ÖAD (Österreichischer Auslandsstudentendienst) Award.

Opinion Maker

Speaker at various national and international conferences around the world, as well as a writer and opinion maker in various online and mainstream media (KOMPAS, Jakarta Post, Bisnis Indonesia, Kontan).
Books Co-author: Pemimpi Perubahan, Aceh Serambi Martabat, INOVASI, Re-designing Indonesia, Bukan Karya Biasa, Mewujudkan Ketenagalistrikan Nasional Berkelanjutan, Transisi Energi Menuju Net Zero Emission 2060.



World Federation of Engineering Organisations (WFEO) nomination

Personal statement from Professor Jim W. Hall

Professor Jim Hall is a chartered civil engineer, a fellow of the Institution of Civil Engineers and the Royal Academy of Engineering. In November 2024, he became the 160th President of the Institution of Civil Engineers (ICE). He is a professor of climate and environmental risks at the University of Oxford, UK.

Prof. Hall is internationally recognized for his research on risk analysis and decision making under uncertainty for infrastructure systems, water resource systems, flood and coastal risk management and adaptation to climate change. His group in the University of Oxford is at the forefront of risk analysis of climatic extremes and their impacts on infrastructure networks and economic systems, from local to global scales. Prof. Hall's career highlights include:

- Appointed commissioner of the UK's National Infrastructure Commission.
- Member of the UK Prime Minister's Council for Science and Technology.
- Contributed to the Nobel Prize-winning Fourth Assessment Report of the Intergovernmental Panel on Climate Change.
- Chair of the Science Advisory Committee of the International Institution for Applied Systems Analysis.
- Won national and international awards for research on water, coastal and flooding risks.

As President of the Institution of Civil Engineers for 2024/5, Prof. Hall has been speaking around the world, about how infrastructure completely shapes our lives. We all depend on it, and often in quite invisible ways. But we know that infrastructure, and how we plan and build it, needs to change, particularly if we are to respond to the threats posed by climate change.

The majority of the world's greenhouse gas emissions come from the energy, transport, water and waste sectors, which civil and infrastructure engineers are responsible for. There are also many unmet needs for infrastructure services, especially in low- and middle-income countries around the world. To create sustainable infrastructure also requires attention to safety, maintenance, productivity and inequality, all which relate to infrastructure. So civil and infrastructure engineers play a fundamental role in solving the world's problems.

Although a civil engineer, if elected, Prof. Hall hopes to speak on behalf of all engineering disciplines, and it is with these aspirations that he aims to make an impactful contribution to WFEO's activities.

Proposal for UK National representative for WFEO

Consent form

Private & confidential

Name of applicant	Professor Jim W. Hall
National honours and distinctions	n/a
Academic qualifications	- MA by proclamation, University of Oxford, 2011 - PhD "Uncertainty Management for Coastal Defence Systems", University of Bristol, 1999 - Postgraduate Certificate in Engineering Management, Joint Board for Engineering Management, 1998 - BEng in Civil Engineering, 1st class honours. Best student in class and 5 graduation prizes, University of Bristol, 1990
Membership of professional bodies (showing grade)	- Fellow, Royal Academy of Engineering, 2010 - Fellow, Higher Education Academy, 2007 - Fellow, Institution of Civil Engineers, 2005 - Fellow, Royal Statistical Society, 2004 - Member, Institute for Learning and Teaching in Higher Education, 2002 - Corporate Member (MICE) and Chartered Engineer (CEng), Institution of Civil Engineers, 1996
Registrations (CEng, FEng, Eur Ing etc.)	CEng, FEng
Principal engineering disciplinary interest	Climate change adaptation & mitigation, water, coastal and flood risks, infrastructure systems
Present post	Professor of climate and environmental risks at the University of Oxford
Service on Trustee Board/Council/Institution Committees (if applicable)	- President, Institution of Civil Engineers 2024/25 - Invited witness to the Environmental Audit Committee hearing on Flood Resilience in England (22 January 2025) - Member of the Programme Advisory Board (PAG) for the UKRI-Defra funded Maximising UK Adaptation to Climate Change Programme (from November 2024) - Invited witness to the Environmental Audit Committee hearing on Climate Change and Security (14 May 2024) - Deputy Chair of the RAEng Green Future Fellowship Steering Group (from May 2024) - Member of the Steering Group for the Royal Academy of Engineering's Green Future Fellowships programme (April 2024 – 2027) - Member of the Royal Society Land Use Review Group for Defra's Land Use Framework (LUF) for England (September 2023). - Invited to give evidence to the House of Lords Industry and Regulation Committee (13 June 2023). - Chair of the Use Cases Advisory Group for the National Grid ESO Virtual Energy System programme. - Director of the Digital Task Force for Planning (from January 2023) - Member of the UK Climate Adaptation Research and Innovation Board (from October 2022) - Commissioner of the National Infrastructure Commission (from April 2022) - Invited to give evidence to the Joint Committee for the National Security Strategy hearing on Critical national infrastructure and climate adaptation (17 January 2022). Cited in the Committee's final report https://committees.parliament.uk/publications/30507/documents/175976/default/ - Member of the Environmental Impact Expert challenge group for the National Security Risk Assessment (January to March 2022) - Member of the Institution of Civil Engineers, State of the Nation steering group (June – October 2021) - Member of the expert quorum for the Royal Academy of Engineering Review of the National Security Risk Assessment Methodology (April-June 2021) - Member of the climate resilience expert advisory panel of the National Infrastructure Commission (from March 2021) - Briefed the Prime Minister on climate change (18 March 2021)

- Invited to give evidence to the House of Lords Risk Assessment and Risk Planning Committee (17 March 2021)
- Vice President of the Institution of Civil Engineers (from April 2021)
- Chair of the Institution of Civil Engineers Research, Development & Innovation panel (from January 2021)
- Member of the Arc Universities Environment Partnership Board (from January 2021)
- Member of the Royal Academy of Engineering Net Zero Working Group (from January 2021)
- Invited evidence to the Environmental Audit Committee's inquiry on Greening the COVID Recovery (December 2020)
- Co-author of the Royal Society research briefing on 'improving climate resilience' (November 2020 – April 2021).
- Member of the OxCam Data Observatory Project Board (November 2020 to February 2021)
- Member of the steering group for ICE's policy programme: "Covid-19, the new normal and implications for infrastructure systems" (May to October 2020)
- Member of the Trustee Board of the Institution of Civil Engineers (November 2020 to November 2023)
- Chair of UK-IIASA Committee (from March 2020)
- Member of the Prime Minister's Council for Science and Technology (from March 2020)
- Member of the National Flood Risk Assessment Independent Peer Review Group (from April 2020)
- Member of the Steering Group for the Institution of Civil Engineers Enabling Better Infrastructure project (January to December 2019)
- Chair of the Steering Group for the £18.7 million UK Climate Resilience Programme (November 2019 to April 2023)
- Member of the National Framework Senior Steering Group for water resources (from September 2018)
- Member of the Digital Framework Task Group for Digital Built Britain (August 2018 to March 2022).
- Peer reviewer of the joint Royal Society and Royal Academy of Engineering report on "Greenhouse gas removal" (June 2018)
- Chair of the Governance Board for the £8 million Data and Analytics Facility for National Infrastructure (2017 to present).
- Member of Defra's Network of Evidence Experts (September 2017 – present)
- Invited witness to the Treasury Select Committee Inquiry 'Autumn Statement 2016' (December 2016)
- Member of the Expert Advisory Group for the National Infrastructure Commission (August 2016 – July 2021)
- Member of the Executive Group for the "National Needs Assessment – A Vision for UK Infrastructure" chaired by Sir John Armitt (August 2015 – October 2016)
- Member of the Environment Agency's Long-Term Investment Strategy Development Group (March 2016 – present)
- Member of the Governance Board for the UK Climate Projections (UKCP18) (2016-2019)
- Member of the Peer Review Panel for the UK Climate Projections (UKCP18) (March 2016 – November 2018)
- Chair of the Peer Review Panel for the Water UK "Water resources long-term planning framework" (November 2015 – July 2016)
- Member of the Scientific Advisory Group (Chaired by Sir Mark Walport) for the National Flood Resilience Review (February – June 2016)
- Member of the Royal Academy of Engineering Working Group on the Sustainability of Liquid Biofuels (March – January 2017)
- Co-chair of the Oxford Martin School Restatement Project on Natural Flood Management (May 2015 – April 2016)
- Invited evidence to the Environmental Audit Committee hearing on Climate Change Adaptation (7 January 2015).
- Peer reviewer of the Environment Agency's Long Term Investment Scenarios (LTIS) (July-October 2014)
- Member of the Oxford Martin Policy and Research Steering Group (2014-2016)
- Reviewer of the Royal Society report on "Human resilience to climate change and disasters" (August 2014)
- Invited evidence to the Review of the Resilience of the Transport Network to Extreme Weather Events (Brown review) (May 2014)
- Member of the Scientific Advisory Group for Emergencies (SAGE) for the 2014 floods emergency, Chaired by the Government Chief Scientific Advisor (February 2014).
- Member of the Institution of Civil Engineers, State of the Nation Infrastructure steering group (Oct 2013-April 2014)

- Member of the Steering Committee for the ESRC Centre for Climate Change Economics and Policy at LSE and Leeds University (July 2013-present)
- Member of the Engineering Policy Committee of the Royal Academy of Engineering (June 2013 – October 2016)
- Member of the steering group for the Engineering the Future “Infrastructure Timelines” project (August 2012 – June 2013).
- Peer reviewer of the Foresight Project: Improving Future Disaster Anticipation and Resilience (August 2012)
- Advisor to Thames Water on adaptation of the Thames Tunnel to climate change (April-July 2012)
- Member of the steering group for the LWEC Water Climate Change Impact Report Card (2012-13)
- Peer Review of the Proposed Work Plan for the Met Office Hadley Centre Climate Programme April 2012- March 2015 (April 2012)
- Member of the Institution of Civil Engineers Public Voice Committee, subsequently Policy and External Affairs Committee (2012-2020)
- Member of the Royal Academy of Engineering membership Panel 2 (Civil, structural, public works and building services engineering) (2011 - 2014).
- Chairman of the Trustees of the JBA Trust (August 2011 – present).
- Member of the HM Treasury / Infrastructure UK “Infrastructure Data Group” (May 2011- 2012).
- Expert reviewer of the Foresight project on “International Dimensions of Climate Change” (March 2011).
- Visiting Professor in the School of Civil Engineering and Geosciences at Newcastle University (2011-2015)
- Panel member for the UK Flood and Coastal Erosion Risk Management research strategy (2010-2011)
- Member of the water and interdependencies sector groups (convened by the ICE and RAEng respectively) for the Defra study on Engineering, Infrastructure and Climate Change Adaptation (May-November 2010)

I hereby declare that the details and information given above are complete and true to the best of my knowledge, and I give my consent to be nominated as the UK representative to the World Federation of Engineering Organisations.



Signature of nominee:

Date: 4 April 2025

Candidature for the WFEO General Assembly elections as a National Member at the forthcoming WFEO GA to be held in Shanghai, China, on 17 October 2025

Mr DANIEL HANUS



As Immediate Past-President of the Czech Association of Scientific and Technical Societies, I am honored by the nomination for a candidature to membership in the WFEO Executive Council as a National Member, and I agree to the nomination.

As a professional engineer, I have served all my life in the development of technologies in the area of my expertise, power engineering, and aviation, and also served the community of engineers in the Czech Republic and worldwide.

I have been a member of WFEO representing the Czech Republic for many years, and it is a great honor and pleasure for me to have collaborated with WFEO as the Chairman of the CSVTS Steering Committee to organize the 7th World Engineers Convention WEC 2023 in Prague.

I am ready to use my experience while working in the WFEO Executive Council in the position of National Member for the further development of the federation.

Assoc. Professor, Ing. Daniel Hanus, PhD., EUR ING, AFAIAA

hanus@csvts.cz

d) The qualifications and experience of the candidate, including particularly their service to their member organization, to international engineering organizations, and to WFEO

Candidate for the position of a National Member of the Executive Board of WFEO for the forthcoming WFEO General Assembly elections to be held in Shanghai, China, on 17 October 2025.

Assoc. Professor, Ing. Daniel Hanus, PhD., EUR ING, AFAIAA

The Immediate Past-President of the Czech Association of Scientific and Technical Societies CSVTS is a world-renowned expert in aerospace engineering.

A graduate of the oldest engineering school in the world, the Czech Technical University in Prague, he has devoted his entire life to pedagogical work in aerospace engineering, as well as industrial and scientific endeavors focused on sustainability and enhancing the efficiency of aircraft propulsion units and industrial power plants.

He is a member of the Czech Technical University in Prague (CVUT) and served many years as the Head of the Aircraft Engines Branch at the Department of Aerospace Engineering as well as the Head of the Department of Air Transport.

He worked as a visiting professor at the French Aerospace University Sup'Aéro in Toulouse and collaborated with many world-class universities and research facilities in Europe, Canada, and the USA. (TU Delft, TU Darmstadt, ENAC Toulouse, Politecnico di Milano, University of Glasgow, University of Toronto, Carlton University Ottawa, Concordia University Montreal, University of Syracuse USA, NASA Glenn Research Center, USA).

As a renowned expert, he holds a high membership rank AIAA Associate Fellow of the American Institute of Aeronautics and Astronautics, and represents the Czech Republic on the Board of the International Society of Air Breathing Engines ISABE.

In addition to his pedagogical, scientific, and industrial practice, he has devoted his entire professional life to serving the professional community of engineers in the Czech Republic and also on a European scale.

He was elected president of the Czech Association of Scientific and Technical Societies for several terms.

He also serves currently as president of the Association of Mechanical Engineers of the Czech Republic and as president of the Czech Aerospace Society.

Since 1995, he has been active in the European Federation of National Engineering Associations FEANI and was elected for two terms as a member of the Executive Committee of FEANI. Currently, he has been elected as president of the Czech National Committee for FEANI/Engineers Europe.

Within the framework of European cooperation of EU universities in aerospace education and research - the Pegasus Network, he serves as a representative of the Czech Technical University and was elected as a Board Member.

Since 1998, he has served as a representative of the Czech Republic in WFEO and collaborated with the WFEO in the organization of the 7th World Engineering Convention WEC 2023 in Prague as the Chair of the CSVTS Steering Committee.

He was awarded numerous honors for his contributions to the development of the field of mechanical engineering and his service to the engineering community.

Award of the Parliament of the Czech Republic for contribution to the development of the Czech aviation Order of the Air Force of the Army of the Czech Republic for the development of aviation

Christian Josef Willenberg Medal, the highest Czech Association of Scientific and Technical Societies award

Leonardo da Vinci Medal, the highest Society of Mechanical Engineers of the Czech Republic award

F. J. Gerstner Medal, the highest Cech Technical University, Faculty of Transportation Sciences award

Awards for contribution to the development of mutual collaboration of FEANI, WFEO, IE (India), Slovak Association of Scientific and Technical Societies ZSVTS



In Prague, 16 January 2025

hanus@csvts.cz

Structured CV in attachment

MR. DANIEL HANUS – STRUCTURED CV

1. EDUCATIONAL BACKGROUND

College or University	Degree(s)	Date
Czech Technical University in Prague, Faculty of Mechanical Engineering	Ing. (MSc. Eng.)	1967
Czech Technical University in Prague, Faculty of Mechanical Engineering	CSc. (PhD.)	1981
European Federation of National Engineering Associations FEANI	EUR ING	1997
Czech Technical University in Prague	Associate Professor	2003

2. PROFESSIONAL RECORD

Job Title, Employer / Affiliation	Dates	Noteworthy Accomplishments
Associate Scientist, Research Laboratory of Superchargers, Czech Technical University in Prague, Faculty of Mechanical Engineering	1992-1993	Research and development of turbochargers for diesel engines for locomotives and ships, improvement of their efficiency and operational characteristics, improvement of their lifetime and reliability - design of the new shape of rotor blades
Assistant Professor, Department of Aerospace Engineering, The Czech Technical University in Prague	1976- 1981	Teaching in the field of internal aerodynamics of turbo machines, thermal cycle analysis of gas turbines and jet engines
Research and Development Fellow, Walter (Aero Engines-Motorlet) Company	1982-1985	Research and development of turbo-propeller engines
Head of Aircraft Propulsion Branch at, the Department of Aerospace Engineering, The Czech Technical University in Prague	1986-2002	Teaching in the field of internal aerodynamics of turbo machines, and thermal cycle analysis of gas turbines and jet engines. Chief Manager of several research development and innovation projects in the field of aeronautical engineering.
Visiting Professor, Ecole Nationale Supérieure de l'Aéronautique et de l'Espace, Toulouse, France	1992-1993	Teaching and research at the "Department Propulsion" Co-ordinator of the European Program of the student mobility TEMPUS with France and also of the Project of the specialized postgraduate formation in aerospace engineering (Mastère Spécialisé).

Project Manager, Grant Agency of the Czech Republic, Ministry of Transportation, Ministry of Industry and Trade, Ministry of Education, Youth and Sports of the Czech Republic	2003-2015	Research and development in the field of safety and efficiency of aircraft propulsion systems, internal aero and thermodynamics, and development of a new generation of centrifugal compressors
Head of Department of Air Transport, Faculty of Transportation Sciences, Czech Technical University in Prague	2005- 2015	Department of Air Transport management
Associate Professor, Czech Technical University in Prague	2003-present	Teaching in undergraduate and graduate engineering programs in the fields of Aerospace Sciences, Air Transport, and Avionics
Partner of the H2020 project PERSEUS	2005- 2015	Quality assurance of the Aerospace engineering programs at technical universities of the EU
Manager of a Research and Development Project	2014- 2016	Implementation of Instrument Flight Rules for helicopters of airborne rescue services
Manager of a Research and Innovation Project	2014 -2016	New design concept of a centrifugal compressor of an aircraft turboprop engine

2. HONORS AND AWARDS

Technical Society / Organization	Date	Recognition
Parliament of the Czech Republic	1998	Medal awarded as appreciation for lifelong service to the Czech aviation
Slovak Association of Scientific and Technical Societies ZSVTS	13. 9. 2004	Gold Medal awarded for lifelong service to the scientific and professional collaboration with Slovak scientists and engineers
Czech Society of Mechanical Engineers ASI ČR	2013	Leonardo da Vinci Medal for the lifelong contribution to mechanical engineering research and development
Czech Association of Scientific and Technical Societies ČSVTS	2013	ČSVTS Honorary President
Czech Technical University in Prague	2013	F. J. Gerstner Medal
Czech Association of Scientific and Technical Societies ČSVTS	28. 5. 2015	ČSVTS Christian Josef Willenberg Medal for the important contribution to the ČSVTS development
Czech Association of Scientific and Technical Societies ČSVTS	202	K. D. Gangloff Medal

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3. SERVICES TO ENGINEERING AND OTHER PROFESSIONAL SOCIETIES / BOARDS / COMMITTEES

Title	Organization / Committee	Dates
President	Czech Association of Scientific and Technical Societies CSVTS	1998 – 2004 2008 – 2014 2017- 2023
Member of Executive Board	Czech National Committee for IIASA (International Institute for Applied Systems Analysis), Laxenburg, Austria	2001 - 2005
Member of Nomination Committee	Czech National Scientific Committee „Ceska hlava“ – “Czech Mind”	2000 – 2016
Associate Fellow	American Institute of Aeronautics and Astronautics AIAA	2003 – present
Member of the Committee for Science, Research, and Aerospace	Commission of the Economic Committee of The Parliament of the Czech Republic	2000 – 2014
Vice-Chairman of Executive Board	PEGASUS Network (European Group of Aerospace Universities)	2008-2010
Member of Executive Board	PEGASUS Network (European Group of Aerospace Universities)	2017 - present
President	Czech Aerospace Society	2018 - present
President	Czech Society of Mechanical Engineers	2014 - present
Member of Executive Board and Czech National Representative	International Society of Air Breathing Engines ISABE	2014 - present
President	Czech National Committee for Engineers Europe	2023 - present

Personal message and photo



Ahad Janahmadov has been the Vice-President and Chief Scientific Secretary of the Azerbaijan Engineering Academy since its foundation in 2005. He represents the Azerbaijan Engineering Academy in all international events. He is the founder of the idea of engineering philosophy. He wrote several popular science books on engineering philosophy.

He is a world-famous Azerbaijani scientist, mechanic-philosopher, doctor of technical sciences, professor, Head of the Department of Transport Mechanics of the Azerbaijan National Aviation Academy, Vice-President of the Azerbaijan Engineering Academy and Deputy Editor-in-Chief of the journal “Herald of the Azerbaijan Engineering Academy”.

Active member of a number of foreign academies, author of more than 40 monographs, 3 scientific discoveries and about 500 scientific articles and 40 patents. He has been a scientific supervisor of around 20 PhD students and doctors of science. Honored Engineer of Russia. He was awarded the “Knight of Science”. He is a laureate of several international competitions in science and education. His fundamental monographs are translated into English, published in the USA, EU and other countries and received international recognition. Ahad Janahmadov is a member of the Azerbaijan Writers Union.

His scientific achievements are praised by many international awards, orders and medals.

Qualifications and experience of candidate

Ahad Janahmadov has been the Vice-President and Chief Scientific Secretary of the Azerbaijan Engineering Academy since its foundation in 2005. He represents the Azerbaijan Engineering Academy in all international events. He is the founder of the idea of engineering philosophy. He wrote several popular science books on engineering philosophy.

He has extensive experience and qualifications from international organizations, in particular, he closely cooperates with WFEO, Federation of Engineering Institutes of Islamic Countries (FEIIC), International Engineering Academy (IEA), Russian Academy of Engineering, and Engineering Academy of Ukraine.

Ladies and Gentlemen, dear colleagues of WFEO,

In continuation of a long-standing, active presence at WFEO, the National Committee Switzerland would be delighted to contribute actively to the further development of WFEO through a representative in the Executive Council. Following the Swiss principle and tradition, the National Committee Switzerland is dedicated to an overall world-wide perspective with a regional focus on Europe.

According to the Global Innovation Index, Switzerland remains one of the most innovative countries in the world. This leading position can be attributed to high public and private investment in research and innovation, a high-class academic environment with internationally renowned universities and a prosperous economic landscape with numerous multinational companies and an even greater number of small and medium enterprises.



But this leading position has its downside. The other side of the coin is a greater burden on the environment. Switzerland's ecological footprint is very high compared to the global biocapacity. In the Cleantech Master Plan, the Swiss Federal Council aims to achieve the vision of a "footprint of one". We are still a long way from achieving this, but our companies, universities and institutes are working intensively towards this goal. Innovations are made, solutions and products are developed, advisory services and educational programmes emerge as well as international initiatives with Swiss roots (myclimate, World Resource Forum, Etc.). Our objective is to achieve the SDGs and to promote engineering education and mobility, to share our experience and innovations and last but not least to learn from world's best practice. Many of our engineers are active internationally and keen to work for and with WFEO.

I am a mechanical engineer with international and industrial experience and currently immediate past-president of the National Committee WFEO/ENGINEERS EUROPE Switzerland and member of the WFEO Executive Committee. I have spent 25 years of my career in the industry, in R&D, project management, sales and general management positions, followed by 15 years in the recruitment of engineers for clients in the industry. I am still active in this field. You may address me in French, German, English or Dutch and am currently learning Czech.

As member of the board and former president (2009-2019) of GII* (Society of Industrial Engineers), I manage a resource efficiency project in cooperation with the Swiss Federal Office for the Environment and VDI (Association of German Engineers). Resource management and circular economy, Engineering Education (future skills requirement) and relation with the industry are topics of particular interest that I would like to pursue within the WFEO.

Increasing awareness to apply engineering and technology to advance the UN Sustainable Development Goals is crucial and we need to make sure that industry is fully involved, both by taking the necessary steps to increase the sustainability of their processes as well as by producing the equipment, products and solutions that are necessary to achieve the SDGs.

In this context, the promotion of engineers, men and women, whether in terms of education, mobility or support in their careers, is paramount.

And finally, we need to get all European non-members on board to share their innovations and solutions with other regions of the world.

I therefore have great interest and would be very pleased to continue to take an active part in the executive Council of WFEO as National Member. I am looking forward to the evaluation process and remain at your disposal for potential questions

Yours sincerely
Alexandre Kounitzky

*) GII is a professional society of SIA (Swiss Society of Engineers and Architects). SIA together with Swiss Engineering STV are the professional organizations forming the WFEO National Committee Switzerland.

Date of birth: 28 December 1955 in Haarlem (Netherlands)
Civil status: Married, 2 daughters (1989) and (1991)
Education: MSc. in mechanical engineering
Federal Institute of Technology (ETH), Zurich, Switzerland
Executive MBA
University of St. Gallen (HSG), St. Gallen, Switzerland
Languages: French and Dutch: mother tongues
German and English: fluent



PROFESSIONAL EXPERIENCE

2005 – Ongoing **A.Cavegn AG**, Zürich, Switzerland
International executive search, recruitment of engineers for the industry
Founding Partner, owner and managing director

2003 – 2004 **Portescap (Danaher Corporation)**, La Chaux-de-Fonds, Switzerland
Specialty and mini motors for medical hand tools and electronic industry
Managing Director Switzerland + VP Sales Europe

2000 – 2003 **Rothrist Tube Inc. (today Benteler Rothrist AG)**, Rothrist, Switzerland
Precision welded steel tubes for the automotive industry
Vice President Sales and Marketing

1996 – 2000 **MAG-Plastic SA (Jean Gallay SA)**, Geneva, Switzerland
Stretch-blow-molding machines for the production of PET bottles
Deputy Managing Director

1994 – 1996 **ABB Power Generation AG**, Baden, Switzerland and Beijing, PR China
Power Plant Control Systems
Manager Business Development China

1990 – 1994 **Sulzer-MTU Casting Technology GmbH**, Winterthur, Switzerland and Munich, Germany
Development of precision casting processes for single crystal turbine blades.
Management of a Brite-Euram European research project.
Joint venture manager

1987 – 1990 **Sulzer, Jet Engines Division**, Winterthur, Switzerland
Head of Marketing and Sales, responsible for Hawk and F18 industrial offset projects.

1985 – 1987 **Sulzer International**, Winterthur, Switzerland
Assistant and Deputy of the Regional Manager Latin America.

1982 – 1985 **CCM-Sulzer SA**, Paris, France
Commissioning Engineer, Diesel engines

1981 – 1982 **Federal Institute of Technology (ETH)**, Zürich, Switzerland
Institute for measurement and control systems.
Assistant

EXTRA-PROFESSIONAL EXPERIENCE

2018 – Ongoing **WFEO / FEANI National Committee Switzerland**
President (2021 – 2024) and actual Past-President

2022 – Ongoing **WFEO**, National Member, Member of the Executive Council

2005 – Ongoing **Society of Industrial Engineers (GII)**, a professional society of SIA
Resource efficiency project in cooperation with the Swiss Federal Office for the Environment and the Association of German Engineers (VDI)
Member of the Board (2009 – Ongoing)
President (2009 – 2019)

Eng Gustave NZENG RUBUZ

+243821830048

gusnzeng@gmail.com

SUPPORT A MA CANDIDATURE : DECLARATION PERSONNELLE

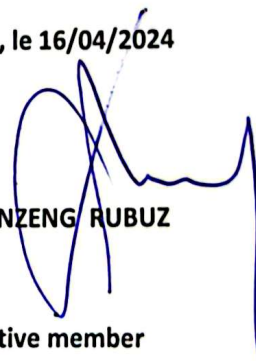
Encouragé par mon organisation, l'Ordre National des Ingénieurs Civils , ONICIV RD Congo, j'accepte de postuler à nouveau comme National Member aux élections du 17 octobre 2025.

Le temps passé au conseil exécutif FMOI / WFEO, pendant mon premier terme, m'a permis de comprendre le rôle du National Member et je souhaite mettre à profit cette expérience pour :

- Me rapprocher des organisations d'ingénieurs en Afrique et surtout en Afrique francophone pour les amener à être membres de la fédération mondiale
- Inventorier les organisations existantes et obtenir les statistiques des ingénieurs
- Continuer à participer aux réunions, assemblées, conférences organisées par la fédération mondiale, la fédération africaine ou toute autre organisation membre de FMOI
- Faire profiter l'expérience internationale à mon organisation ONICIV.

La connaissance du français et de l'anglais reste un atout majeur et favorable pour moi.

Fait à Kinshasa, le 16/04/2024



Eng Gustave NZENG RUBUZ

Oniciv 0003

WFEO Executive member

GUSTAVE NZENG RUBUZ

Ingénieur Civil



Informations personnelles



GUSTAVE NZENG RUBUZ



gusnzeng@gmail.com



+243821830048



21 octobre 1956



[linkedin.com/in/gustave-nzeng-936599188](https://www.linkedin.com/in/gustave-nzeng-936599188)

- Ingénieur chimiste civil, depuis 1981, Université de Lubumbashi, RDC.
- Consultant en mining business
- Président du Conseil d'administration, Kamoto Copper Company, RD Congo 2012 - 2022
- Coach professionnel, PCC. Institut mondial MMS, LLC. Formation certifiée ICF. Bangkok Thaïlande
- Ambassadeur d'honneur Polytechnique/Université de Lubumbashi, DR Congo
- 1st V/Président du Conseil National de l'Ordre National des Ingénieurs Civils (ONICIV) , DR Congo
- Membre du Conseil Exécutif de la Fédération Mondiale des Organisations d'Ingénieurs (FMOI), Paris France

Profil

Cadre supérieur avec une vaste expérience dans les opérations minières, l'innovation et le développement, ayant travaillé pour les secteurs public et privé. Un visionnaire fort qui comprend que la durabilité des organisations et des entreprises sera toujours motivée par la capacité de comprendre la dynamique environnementale dans le but de générer des investissements commerciaux solides et de la valeur pour les parties prenantes.

Expérience professionnelle

Président du Conseil d'administration

de 2012 à 2022

Kamoto Copper Company SA (KCC SA)

Une joint-venture détenue à 75% par Katanga Mining Finance Limited KMFL (dont Glencore est le principal actionnaire) et à 25% par la Gécamines (société publique minière de la RDC). Capacité de production 300 000 t de cathodes de cuivre et plus de 30 000 t de cobalt. Points forts :

- Gérer et présider les réunions du conseil d'administration Diriger et présider les assemblées générales des actionnaires
- Gérer la fonction des affaires corporatives de l'entreprise aux niveaux provincial et national.
- Point de contact et gestion des relations avec les agences gouvernementales et les autorités compétentes.
- Point de contact et gestion des relations avec la Gécamines et les autres industries minières en RDC, les ONG, la société civile, la FEC... Assister à des forums et des conférences en tant que conférencier ou panéliste au nom de l'entreprise
- Assister à des tables rondes, des forums d'ingénierie et des conférences en tant que conférencier ou panéliste.
- A participé aux discussions sur le code minier révisé de la RDC

Directeur général de la métallurgie

de 2009 à 2012

KCC SA

- Gestion des opérations de traitement du minerai, comprenant l'usine de concentration de Kamoto, l'usine hydro métallurgique de Luilu et ses connexes, le contrôle des procédés et le laboratoire, la maintenance des usines et des ateliers.
- Impliqué dans le développement de stratégies à long terme et à court terme pour assurer la croissance et la pérennité de l'entreprise : de la phase 1 avec 25 000 t de production annuelle à la capacité de production actuelle de 300 000 t/an.
- Participer avec le projet et les firmes d'ingénierie Hatch Africa, Bateman, SNC Lavalin à la mise en œuvre du plan de développement de KCC SA en commençant par la rénovation, le traitement des calculs de diagramme de flux, la mise en œuvre des phases de développement 1, 2, 3 et 4.
- Impliqué dans les discussions techniques liées à l'accord de joint-venture (JVARC) entre Katanga Mining limited et Gécamines. A travaillé conjointement avec GCM pour produire les informations techniques sur les actifs et les articles de stockage, l'inventaire des stocks des minerais et stériles, les inventaires des équipements fixes et mobiles et les annexes associés.
- A travaillé en collaboration avec GCM pour produire les cartes et identifier les périmètres miniers objet du partenariat KCC.
- Impliqué dans la délimitation de la concession avec le cadastre minier (CAMI) et Gécamines en utilisant les coordonnées appropriées Clarke 1866 et WGS 84.

Directeur du concentrateur**de 2006 à 2009****Kamoto KTC KCC SA**

Traitement du minerai : concassage, broyage, flottation. Contrôle, maintenance et ingénierie des procédés

Rénovation, développement progressif et mise en œuvre de l'augmentation de la capacité de production

Directeur du concentrateur**de 2002 à 2006****Gécamines (GCM), Kamoto concentrator (KTC)****Directeur de production du concentrateur****de 1996 à 2002****Gécamines (GCM), Kolwezi concentrator (KZC)****Directeur Plantations****de 1983 à 1995****Plantations Lever au Zaïre (PLZ), une société du groupe Unilever**

Agro - business : plantations et usines produisant de l'huile de palme, du caoutchouc, du cacao et du café.

Expérience en gestion et leadership d'entreprise: je gérais environ 8 500 employés, y compris les cadres et les ouvriers. En tant que directeur technique, directeur de plantations et directeur d'usine, j'ai participé à plusieurs programmes de formation à l'intérieur et à l'extérieur du pays : ateliers en gestion, communication, formation de formateurs.

Enseignant de mathématiques et de physique**de 1981 à 1983****Professeur de génie chimique****Institut Supérieur des Techniques Appliquées (ISTA), Kolwezi**

Certificats et accomplissement

**The MMS Worldwide Institute Bangkok
(Thaïlande). Coach professionnel****2022****Cowan International/Canada Coach Academy
Coaching professionnel, programme de
coaching professionnel ICF****2017****Ambassadeur d'honneur****Polytechnique/Université de Lubumbashi,
DRC**

Eng. Yonas Ayalew Tessema
President Ethiopian Association of Civil Engineers (EACE)
28 March 2025



**To: The Nominations Committee
World Federation of Engineering Organizations (WFEO)
Paris, France**

Personal Message from Eng. Yonas Ayalew Tessema

Nominee for National Members Representative, WFEO Executive Council

I am deeply honored to be nominated by the Ethiopian Association of Civil Engineers (EACE) for the position of National Members Representative to the World Federation of Engineering Organizations (WFEO) Executive Council. I accept this nomination with gratitude and a steadfast commitment to serve.

With over two decades in civil engineering, leadership, and global collaboration, I have had the privilege of presiding over EACE. In this role, I have championed professional excellence, empowered emerging engineers, and forged meaningful partnerships worldwide.

I am driven by a belief that engineering is a catalyst for progress transforming communities, advancing sustainability, and bridging divides. If elected to the WFEO Executive Council, I will work tirelessly to strengthen national member organizations, promote innovative, inclusive practices that align with WFEO's vision.

My pledge is to foster collaboration, advocate for engineering's pivotal role in achieving the United Nations Sustainable Development Goals, and elevate WFEO's influence in shaping global policy. Together, we can build a future where engineering not only excels technically but also leads in creating a more equitable, resilient, and sustainable world.

Sincerely,

Eng. Yonas Ayalew Tessema, P.E.
Chief Executive Officer, Ethiopian Construction Works Corporation (ECWC)
President, Ethiopian Association of Civil Engineers (EACE)
Phone: +251911270038
Email: yonasayalew_t@yahoo.com

Qualifications and Experience of the Candidate

Eng. Yonas Ayalew Tessema

Nominee for WFEO Executive Council – National Members Representative

Eng. Yonas Ayalew Tessema is a seasoned civil engineer and transformational leader with over 25 years of progressive experience in engineering, public service, and institutional leadership. He holds a Master's degree in Transformational Leadership and Change from the University of Greenwich, a Bachelor's degree in Civil Engineering, and an Advanced Diploma in Building Engineering from Addis Ababa University.

Currently serving as the President of the Ethiopian Association of Civil Engineers (EACE), Eng. Yonas has played a pivotal role in strengthening the organization's national and international presence. Under his leadership, EACE has strengthened its engagement with global platforms, including the World Federation of Engineering Organizations (WFEO), Federation of African Engineering Organizations (FAEO), and the World Council of Civil Engineers (WCCE). He also served as an advisor for the FAEO president. He has successfully led various engineering conferences, forums, and initiatives that have promoted knowledge exchange and professional excellence within Ethiopia and beyond.

Eng. Yonas is also the Chief Executive Officer of the Ethiopian Construction Works Corporation, where he oversees the implementation of large-scale infrastructure projects. His extensive public service includes leadership roles such as Bureau Head of the Addis Ababa City Construction Bureau, Head of the Infrastructure and Construction Authority, and Project Manager in both government and private sectors.

In terms of international engagement, Eng. Yonas has represented Ethiopia at major engineering forums including UNESCO's 8th African Engineering Week, Big5 Dubai and Ethiopia, and other global knowledge-sharing events. His presentations and active participation in these events underscore his commitment to elevating the engineering profession through collaboration, innovation, and policy advocacy.

As President of EACE, a recognized member of WFEO, Eng. Yonas has supported initiatives that align with WFEO's mission and has continuously encouraged young engineers and women to take part in international engineering platforms. His leadership approach is rooted in inclusiveness, sustainable development, and cross-border cooperation.

With a proven track record in engineering excellence, visionary leadership, and international cooperation, Eng. Yonas is exceptionally qualified to represent national member organizations on the WFEO Executive Council and contribute meaningfully to its global objectives.



April 11, 2025

Consent - WFEO Executive Council National Member Representative

I, Marcos Vinicio Vargas Vargas, Electrical Engineer duly affiliated to the Colegio Federado de Ingenieros y de Arquitectos de Costa Rica – CFIA, express my consent to be nominated by this organization to opt for the position of National Member Representative at the Executive Council of the World Federation of Engineering Organizations-WFEO.



Eng. Marcos Vinicio Vargas Vargas
CFIA, Costa Rica



Contiguo al Indoor Club de Curridabat, San José, Costa Rica

Tel: (506) 2103 2200 / 2103 2342

Apdo.: 2346-1000 Costa Rica

www.cfia.or.cr

RESUME



Name:	Marcos Vinicio Vargas Vargas
Profession	Electric Engineer
Place and date of birth:	San José, November 25, 1961
ID:	1-570-347
Social security number	1-61-11953-01
Marital Status:	Married
Address:	San Francisco Dos Ríos, Barrio Los Sauces, esquina sureste del parque 100 Sur y 75 Este.
P.O.Box:	4638-1000 San José
Phone:	2227-33-10 Home 2000-1637 Office

EDUCATION:

Primary Education:	Escuela José Ana Marín, San Isidro de Coronado. Primary Education
High School Education:	Liceo de Coronado. Basic General Education Colegio Vocacional Monseñor Sanabria. Diversified Technical Education and Intermediate Technician in Electrical Engineering.
Higher Education:	Universidad de Costa Rica. Bachelor's degree in Electrical Engineering, emphasizing Electronics and Telecommunications. Complete Licenciatura Program in Electrical Engineering. Thesis: Implementation of the Hardware of a PABX Plant.

INTERNATIONAL STUDIES:

Hispano-American Association of Research Centers and Telecommunications Companies, AHCJET. Alcatel Standart Eléctrica, Madrid-Spain. Degree: Specialization in Digital Switching Systems.

PROFESSIONAL TRAINING:

1989-1990	Fycsa-Alcatel Standart Eléctrica. System Software Designers Course 12 and System Operation and Maintenance Course 12.
1989-1990:	Specialization Course on Digital Switching Systems, in Madrid, Spain, under the auspices of Alcatel Standart Eléctrica and the Hispano-American Association of Telecommunications Research and Studies Centers (AHCJET). The period was 18 months, which was of two phases: theoretical and practical, carrying out development projects for different Telecommunications Administrations, supported by the IBM and VAX environment.
1993-1994:	New Technologies Course, Lannion, France. The course content covered X.25, ATM, GSM, SDH, new OCB283 R20 system facilities.
1995-1996:	Integrated Network and Service Management Course GIRS-CITEL-OAS, Santa Catarina, Brazil, related to ITU TNM recommendations.
1996-1997:	Operation and Maintenance Course, Alcatel IFA Training Institute of the OCB 283 system.

- 1997-1999: Smart Grid Platform Course, received at the Alcatel IFA Training Institute SSP,SCP,SMP).
- 1997-1998: Smart Grid Platform Course, Alcatel IFA Training Institute.
- Operation and Maintenance of the CDOT SBM System Course, CDOT New Delhi India.

PROFESSIONAL EXPERIENCE:

- November 1979 to date: 44 years of service at the Instituto Costarricense de Electricidad (ICE)
- 1979-1980: Collaborates in the installation and commissioning of ARF102 Electromechanical Switching equipment, such as Telephone Lines, Keyboard Telephone Equipment, routing, and so on.
- 1980-1981: Collaborates in the installation, testing, and commissioning of the first Digital Transit Telephone Exchange AXE-10 System.
- 1981-1982: In charge of routing ARF102 Switchboards for the interconnection of the Tandem Digital AXE-10 Switchboard.
- 1982-1983: In charge of the installation, testing, and commissioning of the first E10B Subscriber Telephone Exchange (San Pedro Digital).
- Collaborates in the process made by the ICE of the SPD Central acceptance tests to the ALCATEL-CIT Company of France.
- 1983-1984: In charge of the installation, testing and commissioning of the Remote Subscriber Units in San Ramón de Tres Ríos. San José and Tres Ríos.
- 1984-1985: Coordinates the reception tests of the OED Digital Center by the ICE to the company ALCATEL-CIT.
- In charge of the installation of the link cable between the Distributors of the OED Digital Exchange and the MDF (Main Distribution Frame) of the ARF 102 West Exchange.
- 1985-1986: Responsible for the expansion of the Exchange Tandem Digital AXE-10, by increasing traffic capacity and, expanding the Digital Group Selector.
- 1986-1987: Coordinates the routes associated with the Digital Exchanges of San Pedro, Oeste, Desamparados, Puntarenas with all the Centers of the National Telecommunications System.
- 1987-1988: Head of the CPA Section of the Directorate of Telecommunications Construction. In charge of the installation of Digital Centers throughout the country.
- 1988-1989: Responsible for the installation, testing and commissioning of the AXE-10 International Digital Center.
- Responsible for installation, testing, and commissioning of the 18000 Telephone Lines Project to expand the E10B Exchanges installed in the country.

- 1990-1991: Responsible of Tender Project 166-90 for the installation of DMS 10 Digital Mobile Exchanges awarded to the Northern Telecom Company.
- Responsible for the interconnection of the DMS 10 Digital Mobile Exchanges to the National Telecommunications System.
- 1991-1992: Responsible for the installation of 25000 Telephone Lines and P11 level of all E10B Exchanges. The upgrading consisted of Hardware and Software modifications to provide the environment of signage No. 7 and improve the Plants' facilities.
- Collaborator in the Technical-Economic Study Group and recommendation of the Award of Private Tender 87-91.
- Responsible for installation and commissioning of Tender 87-91 corresponding to 20000 Telephone Lines and 3000 Transit Circuits.
- 1992-1993: Responsible for the 70.5 KI installation and commissioning project of Alcatel's OCB283 System.
- Instructor of the E10B basic level course taught at the Sub-directorate of Telecommunications Training of ICE.
- 1993-1994: Responsible for the installation and commissioning of the 4 KL of GX5000 Mitel System.
- Responsible for the installation and commissioning of the 41.5 KL of Alcatel OCB283 System.
- Responsible for the commissioning of Tender 256-93, fourteen thousand digital lines of Equitel SPX-2000 System.
- 1994-1995: Responsible for the commissioning to expand 2606 lines in 10 GX-5000 Mitel power plants.
- 1995-1996: Responsible for the 636 MIC + 10 Kline expansion project of Alcatel's OCB283 system.
- Responsible for the 65.6 Kline expansion project, II Licit expansion. 5206 OCB283 system.
- Responsible for the installation and commissioning of 6 Klines of Mitel's GX5000 system.
- 1996-1997: Responsible for the expansion and commissioning project of 55 K OCB283 lines awarded to Alcatel Company.
- Responsible for the expansion and commissioning of 47 K OCB283 lines purchased from Alcatel.
- Responsible for the expansion of 4000 SPX2000-O/C lines 100008 purchased to Equitel Company of Brazil.
- Responsible for the expansion of 4000 GX5000 O/C 100007 lines, purchased to Mitel Company from Canada.
- Responsible for the expansion of 24 DMS-10 Klines purchased to NORTEL.

Responsible for the expansion and commissioning of 35 KI. EWSD, purchased to SIEMENS.

Responsible for the expansion and commissioning of 46 KI.OCB-283 purchased to Alcatel.

Responsible for the expansion and commissioning of 41 KI. DMS-100 and DMS-10, purchased to NORTEL.

Responsible for the expansion and commissioning of the Smart Grid, Services PRM, PCC, UAN.

Responsible for the expansion and commissioning of CTS1 International Transit Center, Lic 5999.

Responsible for the commissioning of CDOT-SBM Exchange donated by the Hindu Government to ICE.

2000-2007

Responsible for the Project Execution area of the UEN Switching process Development and Execution of Projects for expansion projects of Alcatel, Siemens, Nortel and Ericsson Digital Power Plants.

Responsible for the process of supervision and commissioning of the Advanced Internet network based on tender 7075.

Responsible for supervision and commissioning process of the SAMSUNG DSLAM access platforms based on tender 7076.

Collaborator in the acceptance testing process of the CORE of the GSM network of 400 K lines awarded to the company Alcatel.

Collaborator in the acceptance testing process of the CORE of the GSM network of 600 K lines awarded to Ericsson

Responsible for the operating lease contract for the expansion project of 151 K lines and 400 K lines awarded to Alcatel, Siemens, Nortel and Ericsson.

2008-2012

Responsible of the Sub-Directorate for the Execution of DRS-DEP projects and the DBA-DDIBA which were in charge of External Works by Administration Plant, External Works by Contract Plant and Internal Plant.

Responsible for the execution of infrastructure works for access network and transmission network projects (IMAP, 50%IMAP, IPTV-IMAP, NAM, EMD, EMRI, PARABA, Wimax.

Responsible for the execution of infrastructure works for New Generation network projects to provide VoIP service.

Responsible for the supervision of infrastructure works for GSM and 3G Mobile Network projects.

Responsible for the interconnection of mobile networks to the PSTN, PLMN and RAI for Mobile Network projects.

Responsible for the interconnection of operators with authorization granted by SUTEL to those of mobile, fixed, and ICE data networks based on standardized protocols.

2013-2014	Advisor to the Director of the Network Management and Maintenance Division for the migration of the Metro Ethernet network and the migration of Telephone Exchanges. Responsible for the DIBA-DBA Broadband Infrastructure Directorate for the planning, design and execution of fixed access broadband network solutions.
2015-2020	Responsible for the Management, Execution, and Delivery of DEERR-DI Network Resources to coordinate the installation, construction, and implementations of fixed network solutions (FTTX, business services) and wireless (3G, LTE and GL1800)
2021-2023	Responsible for the Execution and Delivery of the DEERR-DI Network Resources and the Construction Directorate of the DPI and DDCR to coordinate the installation, construction of implementations of fixed network solutions (FTTX, business services) and wireless (3G, LTE and GL1800, among others).

PUBLICATIONS:

Interactive System for Digital Exchanges E10B. Electrical Engineering Graduation Project. U.C.R.

Implementation of the hardware of a PABX Telephone Exchange. Graduation Project. Licenciatura degree in Electrical Engineering.



Dr. Nick ZYGOURIS

Technical Chamber of Greece

Nominated National Member Candidate for the Executive Council of WFEO
for the year 2025 elections

Personal message to the WFEO GA

Dear Colleagues,

I represent a small country that has made a great contribution not only to human civilization but also to engineering development.

At present period the world is facing great challenges, and engineers have a major mission to face them. The pace of technological development is accelerating every day, demanding engineers to continuously update their skills and knowledge, being always the tip of the spear.

The role of engineering organizations is now more than ever demanding, since they are responsible for identifying the problems and then inventing and proposing solutions aimed at enhancing living standards, reducing inequalities and improving the overall quality of people's daily lives.

For these reasons, it's essential for all of us to collaborate, regardless of where we come from. Our goal is to motivate, to inspire and support engineers worldwide in embracing the challenges of this new era.

For these reasons, the **Technical Chamber of Greece** decided to participate in this initiative and nominated me as a candidate for the Executive Council of WFEO.

My mission is to contribute with all my efforts to promoting the engineering profession and to work for a better world.

Thank you!

Dr. Nick ZYGOURIS

Technical Chamber of Greece



Dr. Nick ZYGOURIS

Technical Chamber of Greece

Nominated National Member Candidate for the Executive Council of WFEO
for the year 2025 elections

Short CV

Nick ZYGOURIS was born in 1968 in Greece. He graduated from the Civil Engineering Department of the National Technical University of Athens (1991). He holds an MSc degree from UMIST and a PhD from National Technical University of Athens specializing in the seismic design of reinforced concrete structures.

As the founder and key stakeholder of LITHOS Consulting Engineers, Dr. ZYGOURIS has led the design of numerous complex and large-scale projects, including metro stations, bridges, and industrial facilities, both in Greece and internationally.

He is also an adjunct Professor at the National Technical University of Athens (MSc Course on Management and Construction of Projects) and the School of Pedagogical & Technological Education, where he teaches concrete structures and bridge design.

In parallel with his professional activities, Nick ZYGOURIS has written several books and scientific papers in his field and has been an active member of various National and International scientific committees such as the Earthquake Planning and Protection Organization of Greece, the European Centre on Prevention and Forecasting of Earthquakes, the Federation International du Beton e.tc.

He was elected to the Executive Board of the Association of Civil Engineers of Greece in 2000 and served as President from 2010 to 2012.

He has served as member of the General Assembly of the Technical Chamber of Greece (TCG) and he has represented the Technical Chamber of Greece (TCG) in organizations such as the European Council of Civil Engineers (ECCE) and the Engineering Association of Mediterranean Countries (EAMC).

Athens 14-4-2025



**Short
Curriculum Vitae of
Dr. Nick Zygouris
Civil Engineer, MSc, PhD, PE**

Personal Data

Date of birth:

26.09.1968

Place of birth:

Komotini, Greece

Contact details

Address: 34 Anagirountos Av., 16672, Vari, Greece

Phone: +30-6944-414079

Email: NSZ@lithos.com.gr

Education

PhD National Technical University of Athens

Laboratory of Reinforced Concrete Structures, National Technical University of Athens (2021)

Master of Science in Structural Engineering

University of Manchester Institute of Science and Technology (1992)

Civil Engineering Diploma

National Technical University of Athens (1991)

Computer Analysis and Programming

Hellenic Centre of Productivity (1988)

Academic

National Technical University of Athens (NTUA)

Position: Adjunct professor

MSc Course, Management and Construction of projects

School of Pedagogical & Technological Education

Position: Adjunct professor

Course: Special topics on reinforced concrete.

Reinforced concrete

Repair and strengthening of concrete structures

Bridge structures

Professional Experience

LITHOS Consulting Engineers

Position: Manager and Director

Consulting company on the subject the structural and seismic design, supervision and management of civil engineering projects such as complex structures, rehabilitation of old monumental buildings, steelwork and concrete structures - www.lithos.com.gr

Professional certification

Professional Engineer, Technical Chamber of Greece

Officially registered Engineer with the Class C degree as structural designer in the Public Works Consulting Record

Languages

Greek (Native)

English (Very Good)

French (Working Level)

Scientific committees and organizations

Earthquake Planning and Protection Organization of Greece

Member of the scientific committee for the application of the Greek Seismic Design Code (2004 – today)

Member of board (2004-2012)

European Centre on Prevention and Forecasting of Earthquakes

Member of the board (2004-2012)

Federation International du Beton (FIB)

Member

Member of committee 6.9 “Parking Structures”

International Association of Bridge and Structural Engineers (IABSE)

Member

Institution of Civil Engineers (ICE)

Member

Institution of Structural Engineers (IStructE)

Member

International Committee for Industrial Construction (CICIND)

Member

National organizations Association of Civil Engineers of Greece (ACEG)

Elected member of Board (2000-2012)

President (2009-2012)

Technical Chamber of Greece

Elected member of the General Assembly (2012-2016)

Member of the Special Technical Committee of Mechanics, (2000-2012)

Greek Cadastre Organization

Executive Vice President (2012-2015)

International organizations

European Council of Civil Engineers (ECCE)

National representative in General Assembly (2000-2014)

Elected member of Executive Board (2012-2014)

Engineering Association of Mediterranean Countries (EAMC)

Elected member of the Executive Board (2020-today)

President of the working committee of Construction & Infrastructure (2016- 2020)

Engineers EUROPE

Member of the Hellenic National Monitoring Committee (2020- today)

Research programs

National Technical University of Athens, 1995

Title: "Automatic design and seismic analysis of reinforced concrete structures according to the new codes"

Greek Ministry of Education and Religion, 2014

Title: "Software development for the assessment of reinforced concrete structures using modern methods"

Scientific Books

- «Practical Manual for Construction», Verlag Dashofer, 2006
- Hummar G, Zadnik B., Zygouris N., «Civil Engineering Heritage», European Council of Civil Engineers (ECCE), 2009
- «Technical Directive 1: Concreting under with low environmental temperature», ed. Association of Civil Engineers of Greece, 2011, (member of editorial board)

- «Technical Directive 2: Concreting under with high environmental temperature», ed. Association of Civil Engineers of Greece, 2011, (member of editorial board)
- «Technical Directive 3: Concreting under with normal environmental temperature», ed. Association of Civil Engineers of Greece 2012, (member of editorial board)
- «Technical Directive 4: Concrete Floors», ed. Association of Civil Engineers of Greece, 2013, (member of editorial board)
- «Technical Directive 5: Self-Compacting Concrete», ed. Association of Civil Engineers of Greece, 2014, (member of editorial board)
- «Technical Directive 6: Concrete Durability», ed. Association of Civil Engineers of Greece, 2015, (member of editorial board)
- «Technical Directive 7: Corrosion of steel reinforcement», ed. Association of Civil Engineers of Greece, 2016, (member of editorial board)
- «Technical Directive 8 : Repair of concrete cracks », ed. Association of Civil Engineers of Greece, 2019, (member of editorial board)

Scientific Papers

- McCarthy T.J., **Zygouris N.**, Lamb M.R., "Learning through Computer Assisted Design and Detailing of Reinforced Concrete Beams", Developments in Artificial Intelligence for Civil & Structural Engineering, Topping, B (Ed), Civil Comp. Press, 1995, pp 247-253.
- Chronopoulos M., **Zygouris N.**, "Problems of seismic design of traditional buildings, examples of rehabilitation and strengthening", One day Seminar Seismic Design of traditional Buildings», Athens, December 2008.
- Chronopoulos P., **Zygouris N.**, Asteris P., "Investigation-Documentation and Aspects of Seismic Assessment and Redesign of Traditional Masonry Buildings in Greece", EACS 2012 – 5th European Conference on Structural Control, Genoa, Italy – 18-20 June 2012.
- Chronopoulos P., **Zygouris N.**, Panagiotakos T., "Secondary structural elements in new and existing buildings", Journal of the Association of Civil Engineers of Greece No. 403, July-August 2012
- **N.St.Zygouris**, G.M. Kotsovos, M.D. Kotsovos, "Effect of transverse reinforcement on short structural wall behaviour", Magazine of Concrete Research, July 2013, Vol. 65(17), pp.1034 –1043

- **N.St.Zygouris**, G.M. Kotsovos, D.M. Cotsovos, M.D. Kotsovos “Design for earthquake-resistant reinforced concrete structural walls”, *Mechanica* 2014
- **N.St.Zygouris**, G.M. Kotsovos, M.D. Kotsovos “Design for earthquake-resistant short RC structural walls”, (to be published)
- Chatzipanos P., Lykouropoulos L., **Zygouris N.** “Complexity in Projects of Greek State Reforms: National Cadastre”, 2014 PMI Global Congress Proceedings, At Phoenix, Arizona, USA
- G.M. Kotsovos, **N.Zygouris**, “Reinforced concrete frame analysis with mode of failure prediction capability”, *Magazine of Concrete Research*, Dec 2017
- **Ali Benzaamia, Mohamed Ghrici, Redouane Rebouh, Nikos Zygouris, Panagiotis G. Asteris** (2024) “Predicting the shear strength of rectangular RC beams strengthened with externally bonded FRP composites using constrained monotonic neural networks”, *Engineering Structures* 313 (2024)
- E.Koutras, **N. Zygouris**, K.Repapis, A. Drougkas, K.Pilakoutas, P.Asteris “Shear strength of reinforced concrete beams without stirrups by using Machine Learning”, 19th Hellenic Concrete Conference, Thessaloniki, 2024
- A. Zeyad, A. Mahmoud, A. El-Sayed, A. Aboraya, I. Fathy, **N. Zygouris**, P. Asteris, I. Agwa, “Compressive strength of nano concrete materials under elevated temperatures using machine learning”, *Scientific Reports* 14 (1), 24246
- A. Mahmoud, A. El-Sayed, A. Aboraya, I. Fathy, **N. Zygouris**, A.Sadollah, B. Tayeh, P. Asteris, “Synergizing machine learning and experimental analysis to predict post-heating compressive strength in waste concrete”, *Structural Concrete* 2025; pp 1–35.
- P. Asteris, D. Armaghani, A. Gandomi, A. Mohammed, Z. Bousiou, I. Batsis, N. Spyridis, G. Karavalakis, A. Vardi, E. Yannaki, L. Triantafyllidis, E. Koutras, **N. Zygouris**, G. Drosopoulos, N. Fountas, N. Vaxevanidis, A. Bardhan, P. Samui, G. Hatzigeorgiou, J. Zhou, K. Leontari, P. Evangelidis, I. Sakellari, E. Gavrilaki, “Pre-transplant and Transplant Parameters Predict Long-term Survival after Hematopoietic Cell Transplantation Using Machine Learning”, *Transplant Immunology*, Volume 90, May 2025