



**Kancheepuram N. Gunalan (Guna), Ph.D., P.E., BC.GE, NAC
Past President (2020) American Society of Civil Engineers (ASCE)
Co-Chair UN Science & Technology Major Group of Stakeholders and UN
Multistakeholder Advocacy Task Group
Chair WFEO UN Relations Committee
VP| Senior Project Director HNTB Corporation
President Atlas Initiative
2025 WFEO President Elect Nominee Message**

Introduction

I am humbled and honored to submit my nomination for the position of President Elect of the World Federation of Engineering Organizations (WFEO). I have engaged with the global engineering community and collaborated with key WFEO leaders since the early 2000's. I've attended WFEO general Assemblies since 2011 enabling me to actively contribute to Executive Council and Standing Technical Committee / Working Group discussions.

Background

I have been Chair of the WFEO UN Relations Committee (WURC) since 2020 and have increased the visibility and engagement of the WFEO at the UN, especially with the UN Department of Economic and Social Affairs (UN DESA) and the UN Economic and Social Committee (UN ECOSOC), I worked directly with the Ambassadors from member states (Belgium, South Africa, Grenada, Canada, Zimbabwe, Morocco, Finland, India, and Poland to name a few) that Chair these Committees and organize the UN High Level Political Forum (HLPF) and the UN Science, Technology and Innovation (STI) forums, held annually. I co-chair the UN Multistakeholder Group's Advocacy Task Group, representing more than twenty one diverse stakeholders, a position never previously held by a member of the WFEO, and I Co-Chair the Scientific and Technological Community Stakeholder Group (UN STC MG). A number of member

states now recognize and appreciate the important work engineers do. I have been successful in organizing side events from 2022-2024 and Africa Day in 2023. In organizing these events, I have engaged WFEO leaders including Past President Jose Viera and President Mustafa Shehu with the Asian Development Bank, World Bank and Africa Coalition, and I am contributing to two chapters of the second edition of UN DESA's STI4SDGs Roadmap.

I was President of the American Society of Civil Engineers (ASCE) in 2020, which is the oldest civil engineering society in the United States (est. 1852) with 160,000 members, making it the largest civil engineering association in the world with governance responsibility for \$60 million USD annually. I successfully brought ASCE and other US professional engineering institutions together to form Engineering Societies of America (ESA), the new National Member of WFEO, commencing 2025, by personally raising the funds to pay the €22500 annual membership dues and other expenses.

I have led numerous other international engineering initiatives including the Indian-US Conference focused on resilient, sustainable, and critical infrastructure. My policy paper on infrastructure was adopted at the G20 Summit in New Delhi, India. I was the Vice Chair of International Coalition for Sustainable Infrastructure (ICSI) and coordinated the MOU between ICSI and WFEO. I am President of the Atlas Initiative that advocates for our profession and engineers to not only have a seat at the table but to have a voice.

All these experiences have reinforced my desire and determination to not only continue to advocate for our profession but to ensure that our views are respected, voices heard, our suggestions heeded, and our recommendations implemented to the benefit of all.

Strengths

I have extensive business management experience with more than thirty years as an engineering consultant and have been senior vice president / vice president of some of the largest engineering companies in the world including HNTB, AECOM, PB (WSP) and Maxim (Tetra Tech). I am currently leading a \$2 billion + project and have led major engineering projects with budgets over \$3 billion USD (totaling over \$10 billion USD) in the US and internationally.

My business and engineering experience and my successful track record in promoting WFEO internationally, especially at the UN at levels not previously seen, places me in a strong position to advocate for the WFEO.

Vision for the future

My vision is to strengthen the WFEO's international, regional, and national organizations; strengthen the WFEO Secretariat to be nimble and be able provide more support to our members; launch a fundraising campaign to ensure the financial sustainability of WFEO; help our committees and their work products to be more globally recognized; offer more state of the art resources through our academy and support capacity development projects in Africa and in other emerging economies; and

continue to work with the UN and UNESCO and other UN organizations for greater visibility.

Despite current divisions and polarizations in the world today, I believe the thirty million engineers under the WFEO umbrella can unite as builders of civilization and spark a global engineering renaissance as a positive force in shaping our future.

I have long been a lead advocate to develop more educational opportunities for young people to become engineers, especially those in developing countries inclusive of all races, genders, and religions and intend to expand this goal to more programs through the WFEO.

Call for Your Consideration and Support

Thank you for your consideration, support, and vote. I look forward to collaborating with you to enhance our profession globally.

KANCHEEPURAM GUNALAN (GUNA), PH.D., PE, BC.GE, NAC

VP|Senior Project Director

Gunalan (Guna) is a VP|Senior Project Director bringing over 38 years of experience in civil and construction industry, serving in multiple capacities in small, medium and large multi-national consulting firms. He has managed operations and was responsible for P & L of groups ranging from 35 to over 200 employees. Guna's experience and capabilities range from developing a business plan for business lines; successfully establishing new business lines; managing the operations of the business lines including marketing, developing a client base, maintaining client relations; and developing an innovative framework for delivery of design on mega projects. Guna also has the experience and skill sets to manage large complex infrastructure projects both for owners and contractors. His collaborative approach for result oriented outcomes supported by his demeanor and strong communication capabilities have contributed to successful programs and projects ranging in size from a few thousand dollars to over \$3 Billion dollars. He has provided technical advice on civil, structural, geotechnical, pavement and materials issues on a variety of projects around the country and overseas. He has the leadership skills to not only lead multidiscipline teams, but also mentor professionals at various stages of their career. Guna served as the President of the American Society of Civil Engineers, an organization with 150,000 members in over 177 countries with an annual budget of about \$65 Million per year.

Representative Project Experience

Representative Project Prior Experience to HNTB

New York State Department of Environmental Conservation (NYSDEC), Bay Park Conveyance Project, Long Island, NY– Program Manager.
Kancheepuram serves as the Program Manager supporting the client deliver a sustainable and resilient DB Project for Nassau County in Long Island, NY.
Project Cost: \$459 Million
(Design Build: 03/2021-02/23; Construction: 08/21-Present)
Reference: Andy Fera , Project Director , NYSDEC , (518) 419-0058
Duration on Project: (08/2021- 01/2025)

New York City Department of Transportation (NYCDOT), BQE, NY – Procurement Lead. Kancheepuram served as the Procurement Lead and coordinated development of procurement strategy, process and conducted industry outreach.
Project Cost: \$2.5 Billion
(Design: N/A; Construction: N/A)
Reference: Tanvi Pandya, ED, DB & Emergency Contracts, New York City Department of Transportation

Maryland State Highway Administration (SHA), I-270/I-495 Congestion Relief Program, Baltimore, Maryland –Lead Program Manager.
Kancheepuram served as the Lead Program Manager assisting MDOT's

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Firm
HNTB Corporation

Education
PhD/1986/ Civil Engineering,
Texas Tech University,
Lubbock
ME/1981/ Soil Mechanics and
Foundation Engineering, Anna
University, Guindy, India
BE/1979 Civil Engineering,
College of Engineering, Madras
University, Guindy, India

Professional Registrations
1994/PE, UT #94-270604-2202
1990 / PE, NM #11264
2025/ PE, TX #153056
2010 /BC.GE, ASCE

Affiliations
UN STG MG, Co-Chair of
Scientific and Technological
Community Major Group, 2021
WFEO, Chair of World
Federation of Engineering
Organizations) ,
WURC, UN Relations
Committee, 2021
ASCE, President, 2020
ASCE, President Elect, 2019
ASCE, Annual Convention
Chair, Panama, 2014
ASCE, Annual Convention
Organization/Sponsorship Sub
Committee, 2014-2017
ASCE, Geo Institute Board of
Governors, 2014-2017

Hire Date with HNTB
01 2025

Years of Experience with
other Firms: 38
Entered the profession in 1987

SHA with preliminary development of procurement policies for I-270/I-495
Congestion Relief program.
Project Cost: \$9 Billion
(Design: N/A; Construction: N/A)
Duration on Project: 12/2017-05/2018
Reference: N/A

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Colorado Department of Transportation (CDOT), Central 70 P3 Project, City,
CO – Capture Manager and Deputy Design Manager. Kancheepuram served
for the pursuit CDOT's Central 70 P3 project. During the pursuit phase Guna
supported the Design Manager coordinate, manage proposal phase strategy,
design, fee estimation etc.

Project Cost: \$1.2 Billion
(Design: N/A; Construction: N/A)
Duration on Project: (04/2016-03/2017).
Reference: N/A

Massachusetts Department of Transportation (MDOT), Design Build Manual
and RFP Templates, Boston MA –Technical Lead. Kancheepuram served as
the key author rewriting of Mass DOT's Design Build Manual and RFP
Templates.

Project Cost: N/A
(Design: N/A; Construction: N/A)
Reference: N/A
Duration on project (2015-2016).

Region of Waterloo, Waterloo LRT P3 Project, Kitchner, Ontario, Canada –
Pursuit Champion Kancheepuram developed and provided oversight of the
Waterloo LRT P3 Quality System. 19 km of tracks, 16 stations, 13 traction
power stations, maintenance facility and associated civil works.

Project Cost: \$ 583 Million
(Design: 05/2014 -2016; Construction: 06/2019)
Reference: Steve Shive (retired) , Senior Vice President, Kiewit
Duration on Project: (11/2014-06/2016).

New York State Thruway (NYSTA), Tappan Zee Bridge Project, Tarrytown,
NY – Deputy Project Director, Kancheepuram assisted with the procurement
and development of oversight procedures and processes. Three mile long
twin span cable stayed bridge across the widest section of the Hudson river
connecting Rockland and Westchester Counties.

Project Cost: \$3.2 Billion
(Design Build: (07/2012-03/2013).
Reference: N/A
Duration on Project (05/2012 - 04/2013) Completed: 2017

Denver Transit Authority (RTA) , I-225 LRT DB Project, Denver, CO –
Capture Manager. Coordinated pursuit phase strategy, design, fee estimate
etc. Role and duties. Approximately 10.5 mile light rail line including eight
light rail stations, eight structures including a prefabricated pedestrian
structure, right of way appraisals and acquisitions.

Project Cost: \$350 Million
Design: 2012; Construction: 12/2017)
Reference: N/A

Duration on Project: (04/2012-06/2012).

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Caltrans, Presidio Parkway P3 Project, San Francisco, CA – Technical Lead.
Kancheepuram was responsible for development of the technical specifications for this first of its kind in public private partnership in CA.

Project Cost: 1 Billion

(Design: N/A; Construction: N/A)

Reference: N/A

Duration on Project: N/A

St. Louis County , Page-Olive Connector DB Project, St. Louis County, MO –
Procurement Lead . Kancheepuram was responsible for the development of
the performance specifications for the County's design build project.

Project Cost: N/A

(Design: N/A; Construction: N/A)

Reference: N/A

Duration on Project: N/A

Michigan Department of Transportation (Michigan DOT), ARRA Program,
Lansing, MI - Procurement Lead. Responsible for development of
procurement strategy for two projects (Bike Path and ITS for Mackinac
Bridge) under the ARRA schedule.

Project Cost: N/A

(Design: N/A; Construction: N/A)

Reference: N/A

Duration on Project: N/A

Texas Department of Transportation, DFW Connector DB Project, Dallas-
Fort Worth, TX – Principal in Charge. Kancheepuram was responsible for
leading contract negotiations: guiding designer's PM and the design team in
setup, coordination and execution of design and duties.

Project Cost: \$900+ Million

(Design: N/A; Construction: N/A)

Reference: Jerry Porter, Senior Vice President, Kiewit

Duration on Project: N/A

(Design: N/A; Construction: N/A)

Reference: N/A

Continued Professional Affiliations:

WFEO UN Relations Committee Chair 2020- present

ASCE Foundation Chair 2023- present

President Atlas Initiative for Disaster Resilient Earth 2021- present

ASCE, Global Strategy Council Corresponding Member, 2016- 2017

NIEE, Board Member, 2015- Present

ASCE, Indian Initiative Advisory Committee, 2015-2017

WFEO Anti-Corruption Committee Vice Chair Americas, 2014-2018

ASCE, Key Contact Committee and Advocacy Captain, 2015-present

Conference, Panama City, Panama Conference Chair, 2014

ASCE Committee on Ethical Practice, Chair, 2012-2015 WFEO Anti-Corruption Committee, 2013-2015

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ASCE Annual Conference, Montreal, Canada Program Chair, 2012

ASCE, Task Committee on International Strategy, 2012- 2014

ASCE, Chair Sub Committee on Global Principles for Professional Conduct, 2009-2012

ASCE, Region 8 Governor, 2005-2007

ASCE, Task Force on Global Principles for Professional Conduct, 2005-2006

ASCE, Geo Institute Task Force on MSE Wall Chair, 2005-2007

ASCE, Technical Committee on Embankments Dams and Slopes, 2005-2008

ACEC, Utah UDOT Liaison Committee/DFCM QBS Selection Committee Chair, 1993-1995

Chi Epsilon Honor Society, ACEC Utah Chapter, 1993- 1996

Awards and Recognition:

Texas Tech University College of Engineering, Distinguished Engineer, 2019

Utah Engineers Council, Engineer of the Year Nominee, 2018

ASCE Region 8, Engineer of the Year, 2017-2018

ASCE Utah Section, Engineer of the Year, 2017-2018

ASCE Professional Practice Ethics and Leadership Award, 2016

Texas Tech University Civil Engineering Academy, Inductee, 1997

Presentations and Publications

Patron/ moderator, ASCE IS International Conference on Climate and Disaster Resilient, Sustainable, Equitable and Inclusive Infrastructure, ahead of G20 with the support of World Federation of Engineering Organizations (WFEO) and Asian Development Bank (ADB), September 8, 2023

Keynote, "Geotechnical Aspects of Mega Transportation Projects in the Future", CIC2020, Doha, Qatar, February 2-5, 2020.

Keynote Address, "Future of Engineering", at various ASCE Events in the USA, Egypt, Qatar, Lebanon and India.

Keynote, "Understanding and Developing Geotechnical Performance Criteria", GeoMEast 2019, Cairo, Egypt, November 10-14, 2019.

Keynote Speaker, "Development of Reliable, Sustainable and Resilient Infrastructure", Global Engineering Congress, ICE, London October 22-26, 2018.

Keynote Speaker, "A Blueprint for Successful Delivery of P3 Project", ASCE Conference on Urbanization Challenges in Emerging Economies", New Delhi, India, December 12-14, 2017.

Moderated Panel discussions on a variety of topics including topics on Ethical Challenges at various ASCE Annual Convention/Conferences.

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Presentations on various topics of ethics – at ASCE MRLC, AECOM.

Keynote Speaker, “Understanding Performance and Developing Global Geotechnical Standards”, Indian Geotechnical Conference 2016 Geotechnology Towards Global Standards, IIT, Madras, India, December 2016.

Invited Lecture, “Risks and Challenges of Deep Excavations in Urban Settings”, Deep Foundations IGC Pre Conference Workshop, IIT Madras, India, December 2016.

Expert Panelist, DBIA Transportation Conference, Grapevine, Texas, April 2010.

Invited Lecture, “Geotechnical Challenges on Transportation Projects”, Geotechnical Engineering – Indian Experience GEOINDEX, Indian Geotechnical Conference 2006, Chennai, India, December 14-16, 2006.

Principal Author, “Chapter 14 – Highway Construction, the Handbook of Highway Engineering”, CRC Publication 2006.

Patrick Drennon, Nancy Smith, Charlie T, K. N. Gunalan, Workshop on “Design Build, Warranties and Performance Speciation” for FHWA Field Engineers, Washington DC, December 2004.

Principal Author, “Accelerating Construction of Bridge abutments and Embankments, Legacy Parkway DB Project, Salt Lake/Davis Counties, Utah”, Geo Trans 2004, Los Angeles, California, May 26-28, 2004.

“Developing Pavement Performance Speciation’s for Interstate 15 Reconstruction Project, Salt Lake County, Utah,” 4th International Conference on Road and Airfield Pavement Technology, Kunming, Yunnan Province, P. R. China, April 23-25, 2002.

“Beneficial Use of Ground Improvement on a Major Design Build Transportation Project in Salt Lake Valley, Utah, USA,” 4th International Conference on Ground Improvement Techniques, Kuala Lumpur, Malaysia, March 26-28, 2002.

“Ground Modifications on I-15 Reconstruction Project, Salt Lake County, Utah,” Symposium on Recent Developments of Ground Improvement, Osaka, Japan, May 22, 2001.

Coauthor, “Accelerated Reconstruction of I-15 through Salt Lake County, Utah,” International Conference on Soft Ground Technology, Netherlands, May 28-June 2, 2000.

“Keynote Address - I-15 Project,” Rocky Mountain Concrete Pavement Conference, Salt Lake City, Utah, February 1-2, 2000.

Employment History:

VP| Senior Project Director, HNTB, January 2025 to Present
Senior Vice President, AECOM, July 2019 to January 2025
Vice President, AECOM, April 2012 to July 2019
Vice President, Parsons Brinckerhoff, May 1996 to April 2012
Area Manager, Maxim, July 1993 to May 1996
VP/ General Manager Terra Engineers, 1986-1993

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ENGINEERING COUNCIL OF ZIMBABWE

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Tel: +2634227188/222611,

E-mail: engineering@ecz.co.zw, Website: www.ecz.co.zw

08 April 2025

MESSAGE FROM DR ENG. MARTIN MANUHWA TO ALL WFEO MEMBERS ON HIS WFEO PRESIDENT ELECT CANDIDATURE.

Ladies and gentlemen, esteemed colleagues and members of the engineering community, I am writing to you today with *great humility* and enthusiasm as I declare my candidacy for the esteemed position of *President-Elect* of the World Federation of Engineering Organisations (WFEO).

I pledge my support to the *WFEO Governance systems*, especially the policies led by past, present, and future Presidents and their Boards. This is vital to build on past successes, as it ensures the *incoming President is fully supported* in realising the vision and mission of the WFEO. I have successfully fulfilled this role, having served as a member of the WFEO Council with a proven record of distinguished service to the engineering profession, leading national, regional, and international professional engineering bodies for many years.

Throughout my career, I have strived to embody the *values and principles* that this organisation holds dear, and I am honoured to have been given the opportunity to present my vision for the future of our profession. I am particularly encouraged because *I have served WFEO in various capacities since 2009, chairing two Standing Technical Committees (Anti-Corruption and Engineering Capacity Building) and all STC chair committees.*

My journey in the field of engineering has been one of *dedication, passion, and relentless pursuit of excellence.* As a Registered Professional Engineer from Zimbabwe, I have served in various leadership roles regionally and globally. My tenure as *Vice President of WFEO* and *Chair of its Capacity Building Technical Standing Committee* has equipped me with the necessary experience and insights to lead this prestigious organisation effectively. I am proud to have played an integral role in the *Engineering*

Capacity Building for Africa Programme (ECBAP) and the ***Alliance of International Science Organisations on Disaster Risk Reduction (ANSO-DRR)***. These experiences have underscored the importance of collaboration, innovation, and resilience in tackling today's global challenges.

As a founding member of the ***Asia-Africa-Pacific Accord (AAP) Engineering Council*** and a past ***president of the Federation of African Engineering Organisations (FAEO)***, I have always believed that strong partnerships and cross-regional cooperation are key to advancing the global engineering agenda. I have also served as the President of the ***Zimbabwe Institution of Engineers (ZIE)***, a founding member of the WFEO, formerly known as the Rhodesia Institution of Engineers. Additionally, I chaired the ***Engineering Council of Zimbabwe (ECZ)*** and the ***Southern African Engineering Organisations (SAFEO)***. I was also one of the founding members of the Executive Committee of the ***World Council of Civil Engineers (WCCE)***. Over the years, I have observed that the world is now more interconnected than ever, primarily through AI and the 4th Industrial Revolution, and our collective efforts are crucial in shaping the future of infrastructure, energy, disaster risk reduction, and sustainable development.

At the heart of my vision for WFEO is a commitment to fostering capacity building, education, and training within the engineering profession. I have spent much of my career advocating for the development of infrastructure solutions that address our communities' immediate needs and ensure a sustainable future for generations to come. Through my work with ***ZAIDG Consulting Engineers*** and collaboration with partners like ***Hatch Africa***, I have seen firsthand the transformative power of engineering in building resilient societies.

As you all know, Engineering plays a vital role in infrastructure development, innovation, and economic growth. WFEO's ***Vision, therefore, needs to be "strengthened to ensure it remains the leading global voice of engineering, with strong institutional presence, sustainable funding, and impactful influence on engineering education, practice, and policy worldwide."***

I am deeply committed to continuing WFEO's mission of advocating for engineering excellence, ethical practices, and diversity within our profession. In the coming years, I believe that WFEO must continue to serve as a beacon of leadership in promoting engineering as a vital tool for addressing the United Nations' ***Sustainable Development Goals (SDGs)***. Together, we can drive progress in clean energy, infrastructure development, and disaster resilience.

I will also focus on enhancing WFEO's global partnerships to ensure that engineering knowledge and expertise are shared across borders. By strengthening our relationships with governments, educational

institutions, and industries, we can unlock the full potential of our profession to shape a more sustainable, equitable, and innovative world.

As President, I will lead with integrity, inclusiveness, and a focus on solutions that elevate the role of engineering in society. My experience as a *chairperson on various boards*, involvement in policy initiatives, and deep connection with engineering communities worldwide provide me with a strong foundation to guide this organisation toward new heights.

Together with the members, I will develop a five-point futuristic plan to rebrand WFEO as more responsive to global and complex engineering solutions, more visible and impactful in policy thought leadership, and with an amplified voice for the profession.

The 5-point plan is anchored on the following principles:

- i. To create an *innovative ecosystem of engineering solutions* to advance the SDGs and other global North, South, East and West aspirations and Challenges!
- ii. To generate a conducive and productive environment of *positive engagement* that will *reform and leapfrog* WFEO into a global giant in engineering matters.
- iii. Open new *opportunities for Engineering* to offer solutions to societal challenges to end global poverty.
- iv. Enter into *win-win relationships* that propound the WFEO brand to unprecedented heights!
- v. Engage with *Policymakers, Industry, and Academia to raise WFEO's visibility* and reach and restore Engineering to its rightful place in society.

Together, we can build a future where engineering drives *positive change, shapes resilient communities*, and addresses the most pressing challenges of our time. I request your support as we strive to make the World Federation of Engineering Organisations a stronger, more influential, and more inclusive global voice for the engineering profession.

Please find my brief biodata attached. Thank you all for the excellent friendship and mentorship you have offered me over the years. I always find guidance from an African proverb, *“If you want to go fast, go alone; if you want to go far, let’s go together.”* As a team, we can create the blue-chip WFEO we all want.

Thank you.



WFEO President-Elect Candidate

BIO DATA FOR WFEO PRESIDENT-ELECT CANDIDACY



 Harare, Zimbabwe

 mmanuhwa1@yahoo.com

 +263 77 380 3310

 [Martin Manuhwa](#)

Languages

English Fluent

Key Skills

- Sustainable Energy Engineering
- Project Management & EPCM
- Policy Development & Capacity Building
- Big Data Analytics & AI Integration
- Strategic Leadership & Global Collaboration
- Communication
- Negotiation
- Public Speaking
- Teamwork

Eng. Dr. Martin Manuhwa

Pr. Eng(Z), FZwIE, FASI, FAAET, FAETDEW, AfASCE
Vice President, World Federation of Engineering Organisations (WFEO)
Chair, WFEO Capacity Building Committee (2019–Present)

Registered Professional Engineer with over 30 years of leadership in global engineering initiatives, specializing in sustainable energy infrastructure, project management, and capacity building. Vice President of WFEO, Founding President of SAFEQ, and Past President of FAEO. Managing Consultant at Zimbabwe Africa Infrastructure Development Group (ZAIDG), delivering high-impact energy and infrastructure projects across Africa. Recognized globally for contributions to engineering excellence, anti-corruption, and sustainable development.

Professional Experience

Managing Consultant | Zimbabwe Africa Infrastructure Development Group (ZAIDG), Harare 1995 - Present

- Lead engineering, procurement, construction management (EPCM), and consulting services for energy, mining, and public sector projects.
- Collaborate with Hatch Africa (Pty) Ltd to provide technical advisory services to Zimbabwe Power Company (ZPC).
- *Key projects:*
 1. **Kariba Hydro Power Station Extension (300 MW):** Successfully commissioned.
 2. **Hwange Power Station Expansion (600 MW):** In final stages.
 3. **Harare Master Plan Consultancy** and
 4. **Bulawayo Repowering ZPC Project**

Vice President & Chair, Capacity Building Committee | World Federation of Engineering Organisations (WFEO) 2011–Present (Voting Member, Executive Council); 2019– Present (Chair, Capacity Building)

- Architect of the Engineering Capacity Building for Africa Programme (ECBAP), leading the Africa Office in partnership with the Chinese Academy of Sciences' ANSO-DRR.
- Chair of the Anti-Corruption Standing Technical Committee and All STC Chairs Committee.
- Advisor to three WFEO Presidents, shaping global engineering policies.

Past President | Federation of African Engineering Organisations (FAEO)

- Led initiatives to advance engineering standards and education across Africa.

Founding President | Southern African Federation of Engineering Organisations (SAFEQ)

- Established SAFEQ to foster regional collaboration in engineering innovation and capacity building.

Professional Affiliations

- Founding Member, **Asia-Africa-Pacific Accord (AAP) Engineering Council**
- Founding Member, **World Council of Civil Engineers (Chair, Education, Training, and Capacity Building Committee)**
- Steering Committee Member, **Engineering Capacity Building for Africa Programme (ECBAP)**
- Steering Committee Member, **Chinese Academy of Sciences' ANSO-DRR**

Fellowships

- Fellow, **African Scientific Institute (ASI)**
- Fellow, **Academy of Engineering and Technology of the Developing World (AETDEW)**
- Foreign Fellow, **ASEAN Academy of Engineering and Technology (AAET)**
- Past President Fellow, **Zimbabwe Institution of Engineers (ZIE)**
- Affiliate Member, **American Society of Civil Engineers (Aff.MASCE)**

Chairman | Engineering Council of Zimbabwe (ECZ) & Zimbabwe Institution of Engineers (ZIE), Harare

- Spearheaded regulatory and professional development frameworks for Zimbabwe's engineering sector.

Education

PhD in Sustainable Energy Engineering

European International University, Paris

MBA in Digital Transformation and Strategic Management

University of Zimbabwe, Harare

Engineering Graduate Qualifications

University of Zimbabwe, Harare

Postgraduate in Powertrain Project Management

Royal Steward and Associates, Toronto, Canada
1998

Study Tour: US Energy Systems, Power Industry Services, and Business Practices

Los Angeles Department of Water and Power, UC Berkeley, NASA Goddard Space Flight Centre
1995

Board Memberships & Leadership Roles

Chairperson | Chinhoyi University of Technology (CUT) Council, Chinhoyi

2020–Present

Chairperson | ZISCOSTEEL Board, RedCliffe

2021–Present

Faculty Advisory Board Member | Various SADC Engineering Faculties

Past Chairperson | Industrial Energy Solutions P/L, Zimbabwe Infrastructure Build (Zim-Build)

Board Technical & ICT Committee Chairperson | **Zimbabwe Broadcasting Corporation (ZBC), State Procurement Board, Zimbabwe Higher Education Council (ZIMCHE)**

Consultant | **SADC Mutual Recognition Agreement & Trade in Services Strategy Formulation**

Contributor | **UNECA Africa SDG Dashboard Series, United Nations Summit of the Future (ARFSD)**

Honours & Awards

Global Excellence and Leadership Award in Energy and Sustainable Engineering

2025

FAEO Distinguished Services to African Engineering

2024

ZIE Lifetime Achievement Award

Kariba & Hwange Projects

Global Engineering Excellence Award

India

WCCE Engineering Award

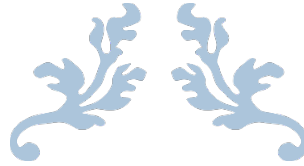
WFEO Recognition for Leadership in Anti-Corruption

ZIE SKF Service to Engineering Award

FAEO Engineering Week Founders Award



01 MAY 2025



CURRICULUM VITAE

Dr Eng. Martin Manuhwa - Pro (Eng) (Z), FZwIE, FASI, FAETDEW, Aff.MASCE.

WFEO Chair of Capacity Building Committee (2019-Present)
Chairman Chinhoyi University of Technology (2020-Present)

WFEO Awards Committee - Chairperson (2023-Present)



Martin is the **Chairman** of **WFEO Engineering Capacity Building Committee since 2019**. He is a Registered Professional Engineer from Zimbabwe. He is also a **Vice President of the World Federation of Engineering Organisations (WFEO)** and **Chair of its Awards Committee since 2023**. He was recently appointed to the steering committees of the **Engineering Capacity Building for Africa Programme (ECBAP)** and the **Chinese Academy of Sciences' Alliance of International Science Organizations on Disaster Risk Reduction (ANSO-DRR)** respectively. He is a founding member of the **Asia Africa Pacific Accord (AAP)'s Engineering Council** and a **Past President of the Federation of African Engineering Organisations (FAEO)**. He is a past **Chairman of the Engineering Council of Zimbabwe (ECZ)** and **Past President of the Zimbabwe Institution of Engineers (ZIE)**. He is the **Founding President of the Southern African Federation of Engineering Organisations (SAFEO)**. Martin is a founding member of the **World Council of Civil of Engineers** where he chairs the **Education Training and Capacity Building Committee**.

MARCH 2025

CURRICULUM VITAE (CV)

Position Title.	ZAIDG CONSULTING ENGINEERS– MANAGING DIRECTOR
Name of Expert:	<i>Eng. Martin Manuhwa</i>
Date of Birth:	<i>01/01/1967</i>
Country of Citizenship/Residence	Zimbabwe

EDUCATION:

- Doctor of Philosophy (PhD.) - Sustainable Energy Engineering - European International University - Paris.
- Masters of Business Administration (MBA) University of Zimbabwe (2001). Passed with a Merit (2.1) grade. Specialised in Strategic Management and Information Technology.
- Bachelor of Technology in Electrical and Electronic Engineering (Honours), University of Zimbabwe (1993). Graduated with an Upper Second grade (2.1) pass.
- Diploma in Project Management: Steward & Associates, Canada
- Member - Project Management Institute (PMI-USA)
- International Computer Driving Licence (ICDL): Computer Society of Zimbabwe.

SERVICE TO WFEO & OTHER PROFESSIONAL ORGANISATIONS

- World Federation of Engineering Organisations (WFEO) – **Chair of the Engineering Capacity Building Committee** (2019-Present).
- Southern Africa Federation of Engineering Organisations (SAFEEO) - **President**(2012-15)
- Chair of WFEO Anti-corruption Standing Technical Committee (2013-2018).
- **President of the Africa Federation of Engineering Organisations (FAEO)** (2018-20).
- **Engineering Council of Zimbabwe (ECZ)** – Chairman (2014-2016)
- **WFEO Awards Committee Chairperson** (2013-Present)
- Fellow and **Past President of the Zimbabwean Institution of Engineers (ZIE)**. (2007-8)
- American Society of Civil Engineers (ASCE) – **Affiliate Member**
- World Council of Civil Engineers (WCCE) – **Vice President and Chair of Training, Education and Capacity Building Committee.**
- World Federation of Engineering Organisations (WFEO) – **Member of the Energy Committee**
- **Global Infrastructure Anti-Corruption Centre (GIACC) UK** – Advisory Council Member (2009-Present)

PROFESSIONAL INFORMATION:

• International

- Consultant for COMESA and SADC on Economic Partnership Agreements and trade in services with the European Union (EU) (construction and engineering related services).
- Consultant on Energy and Engineering Services in the African Region
- Hatch local partner for the Energy and Infrastructure in Africa.

• National

- Consultant and Engineering advisor team member with Hatch and ZAIDG on the Hwange (600MW) and Kariba Expansion Projects (300MW).
- Energy Management Consultant to Industry and Government Depts.
- Member of the Zimbabwe School of Mines Board. (2016-18)
- Chairman of the Chinhoyi University of Technology 2020 to Current
- Chairman of Ziscosteel Board 2020- to Current
- Councilor of the Zimbabwe Council for Higher Education (ZimCHE).
- Former Board Member – State Procurement Board SPB (2015-2018).
- Facilitator and Consultant for the Zimbabwe Economic Development Strategy thematic group on Infrastructure (2009-15).
- Member of the Ministerial Task force on Water (2016).
- Part time Lecturer at the University of Zimbabwe Graduate School of Management in Masters of Business Administration (MBA) 2006-15).
- Part time Lecturer at the Bindura University of Science Education Graduate School of Leadership in Masters of Business Leadership (MBL) 2012-15).
- Part time Lecturer at the Zimbabwe National Defense University in Masters of Science in Software Engineering (2018-2021).

PUBLICATIONS

- Manuhwa, M. (2019). Engineering Education and Sustainable Development in Africa. Journal of African Engineering, 7(2), 124-138.
- Mbohwa, C., & Manuhwa, M. (2009). Energy efficiency demand side management for sustainability: Applicability of new methods in the SADC region. In Energy Efficiency Research (pp. 167-185). Nova Science Publishers² Inc..Nova Science Publishers, Inc. · Nov 15, 2008.

SUMMARY OF EXPERIENCE:

Martin is an engineering consultant with more than 25 years extensive experience and expertise in infrastructure construction, power system grid design, power station and substation design, energy projects evaluation, auditing and financial appraisal of projects. ***He has managed projectst to ensure efficient and effective delivery and has done advisory services on listing of assets to finance power system expansion.*** He is an action centred engineer with ability to handle projects from concept to commissioning. He has extensive expertise in power engineering protection, distribution as well as both production & manufacturing engineering consulting. He has extensive experience in building services, feasibility studies from concept to bankability as well as design, construction and supervision of residential electrical supply services.

He has worked for ZESA Transmission and distribution for more than a decade. He specialises in the integration of renewable energy systems; small hydroelectric projects, solar power; renewable energy resource assessment, market assessment and planning alternative energy sources and applications. Martin was part of the team of consultants raised finance for ZESA 's Expansion Projects at Kariba and Hwange.

KEY SKILLS:

- Project Management, Engineering and Financial Consultancy
- Infrastructure Planning and Policy Development;
- Management of technical change; training and capacity building; strategic planning; technology development and technology transfer;
- Financial Modelling
- Organisational Design and Operations Management
- Power Systems Management
- Electrical System Design and Modelling
- Energy Management.
- Renewable Energy Technologies and modern electrical design and deployment
- Feasibilities and Project management, planning, monitoring and evaluation;
- Infrastructure Management Financing and appraisals.
- Water and Energy Policy formulation for utilities.

EMPLOYMENT RECORD:

Period	Assignment and your title/position. Contact info for references	Country	Martin is Managing Consultant of ZAIDG
2018 to present	Consultant Engineer and Technical Advisor with Hatch/ZAIDG on the Hwange Thermal Power Station Expansion (600MW).	Zimbabwe	Bankable Feasibility studies for the 1.4 Billion USD Hwange Thermal Power Station Expansion Project (600MW). Design Reviews, supervision and construction management. ESIA and EMP team leader in Environmental Assessment, Design, specification and engineering Electrical Engineering Services.
2011 to present	Hwange Thermal Power Station Expansion (600MW).	Zimbabwe	Bankable Feasibility studies for the 1.4 Billion USD Hwange Thermal Power Station Expansion Project (600MW). Design Reviews, supervision and construction management. ESIA and EMP team leader in Environmental Assessment, Design, specification and engineering Electrical Engineering Services.
2011-2018	Kariba Hydro-Power Station Extension (300mW) Projects: 2011 and on-going.	Zimbabwe	ESIA and EMP Project Manager. Feasibility studies for the Kariba Power Station Expansion (300MW). Design Reviews, supervision and construction management.
2016	ZPC Bulawayo Repowering Project.	Zimbabwe	Team leader, Topographic Survey and EIA as well as Construction and engineering related services.
2007	ZINWA and DBSA on their initial engagement for Harare Water Projects Project Consultant	Zimbabwe	Implementation for Investment funding based on Harare Water Priority Projects.
2007	ZESA Transmission Expansion Project for the powerline and substation construction projects with	Zimbabwe	Feasibility Studies, Construction Supervision, ESIA, EMPs and Electrical Engineering Services.

EXPERT'S CONTACT INFORMATION :

	Hatch Africa (Pty) Ltd. 2011 and on-going; <ul style="list-style-type: none">e-mail : mmanuhwa1@yahoo.com,phone :+263773803310		The transmission expansion project ESIA's was divided into three components as follows: (1) Hwange-Insukamini (Bulawayo) new 400 kV transmission line, new Hwange substation and Insukamini substation upgrade; (2) Marvel-Insukamini new 330 KV transmission (3) New Sherwood substation, near Kwekwe.
2004 – current	Consultant on Energy and Engineering Issues (Various Clients)	SADC	Design Engineer
2004 – current	Energy Management Consultant to Industry and Government Departments	Zimbabwe	Consultant
1997-2000	ZESA Power II Project on the Expansion of the transmission system and inter-connector with Mozambique,	Mozambique	Design, engineering, installation and commissioning of 420kV, 330kV lines and associated substations under Power Plan II;
1999-2000	Kariba Power Station Refurbish Project	Zimbabwe	Protection Engineer

LANGUAGE SKILLS:

- English
- Shona

Martin Manuhwa



19/03/2025

Name of Expert

Signature

Date

A JOURNEY OF COMMITMENT

Since 2007, Eng. Dr. Martin Manuhwa has served WFEO in numerous capacities, including as Chair of two Standing Technical Committees (Anti-Corruption and Engineering Capacity Building) and as Chair of all STC Chairs' Committees.

His tenure as VICE PRESIDENT of WFEO has further deepened his understanding of the organization's mission and global impact. These roles, combined with his contributions to initiatives like the Engineering Capacity Building for Africa Programme (ECBAP) and the Alliance of International Science Organizations on Disaster Risk Reduction (ANSO-DRR), have equipped him with the insights and expertise to lead WFEO effectively.

His journey in engineering reflects a relentless pursuit of excellence. As a licensed professional engineer from Zimbabwe, he has held leadership positions at national, regional, continental, and international levels.

He is a Founding Member of the Asia-Africa-Pacific Accord (AAP) Engineering Council, a PAST PRESIDENT of the Federation of African Engineering Organizations (FAEO), and a PAST PRESIDENT of the Zimbabwe Institution of Engineers (ZIE) - ZIE is a founding member of WFEO in 1968.

Additionally, he has chaired the Engineering Council of Zimbabwe (ECZ), the Southern African Federation of Engineering Organizations (SAFEEO), and served as a Founding Executive Committee Member of the World Council of Civil Engineers (WCCE). These experiences have reinforced his belief in the power of partnerships and cross-regional cooperation to advance the global engineering agenda.

A CALL TO ACTION



I seek your support to continue building a WFEO that is more responsive, influential, and inclusive - a true global voice for our profession. Together we can explore new paradigms to meet and solve the global challenges of the 21st century, with emphasis on sustainability, innovation and social responsibility as our overall goal. We will always work as a great WFEO team guided by the philosophy of teamwork and collaboration as summed up by the proverbial wisdom that states that:

"If you want to go fast, go alone; if you want to go far, let's go together."

Thank you for your friendship, mentorship, and unwavering commitment to engineering excellence over the years.



CONTACT INFO

 **+263 77 380 3310**
 **mmanuhwa1@yahoo.com**



**ENG. DR. MARTIN MANUHWA
FOR WFEO PRESIDENT ELECT**

"Engineering a Sustainable Future Together"

2025



FIVE POINT PLAN



INNOVATE

Develop engineering solutions to advance the SDGs and tackle global challenges.



REFORM

Enhance WFEO's role as a thought leader in engineering.



SOLVE

Create opportunities for engineering to address societal issues like poverty and inequality.



COLLABORATE

Build partnerships to strengthen WFEO's global influence.



ENGAGE

Strengthen ties with policymakers, industry, and academia to amplify WFEO's visibility.

LEADERSHIP AND CONTRIBUTION

2007

NEW DELHI, INDIA

WFEO General Assembly;
Presentation of Technical Paper

2009

KUWAIT CITY, KUWAIT

WFEO General Assembly,
Presentation of Technical Paper

2011

GENEVA, SWITZERLAND

WFEO General Assembly & World
Engineer's Convention;
Presentation of Technical Paper

Elected to WFEO Executive Council

2013

LJUBLJANA, SLOVENIA

World Engineering Conference on
Sustainable Infrastructure (co-
organised by WFEO, UNESCO &
FEIAP; Presentation of Technical
Paper

Became STC Anti-Corruption Chair

2015

KYOTO, JAPAN

WFEO General Assembly & World
Engineer's Convention;
Presentation of Technical Paper

2017

ROME, ITALY

WFEO General Assembly & World
Engineer's Convention;
Presentation of Technical Paper

Became All STCs Chair

2018

LONDON, UK

WFEO Global Engineering
Conference GEC and Executive
Council Meetings - Presented
a technical paper

2019

MELBOURNE, AUSTRALIA

WFEO General Assembly & World
Engineer's Convention;
Presentation of Technical Paper

Became STC Engineering Capacity
Building Chair

2023

SAN JOSE, COSTA RICA

WFEO General Assembly & World
Engineering Summit; Presentation
of Technical Paper

2024

KIGALI, RWANDA

Global Engineering Conference on
Sustainable Energy; Presentation of
Technical Paper.

VISION

**"To Amplify the WFEO
Brand to be the
Leading Voice of
Engineering Globally."**

