



WFEO



Engineering and Technology for Sustainable Development

Chairmen and Speakers Bio-Data

1. Academician Dato' Ir Lee Yee Cheong, DPMP, KMN, AO, F.A.Sc., FTSE

Academician Dato' Ir Lee Yee Cheong, 65, graduated from the University of Adelaide in 1961 and served with the National Electricity Board Malaysia until 1980. He then joined Tenaga Ewbank Preece (M) Sdn Bhd (TEP) as a Director and then Managing Director. He eventually became a partner in the U.K. holding company, overseeing the expansion of the group in the Asia Pacific region. Currently he is Advisor to the Chairman of KTA Tenaga Sdn Bhd. He is a director of UMW Holdings Berhad.

Academician Dato' Ir Lee has been active in professional engineering institutions being at various times, President, the Institution of Engineers Malaysia (IEM), Member of the Board of Engineers Malaysia, Member of the Board of Architects Malaysia, Secretary General, the Federation of Engineering Institutions in South-east Asia and the Pacific (FEISEAP), Chairman and currently Honorary President of Commonwealth Engineers Council (CEC) and President of the ASEAN Federation of Engineering Organizations (AFEO). Currently he is the President-Elect of the World Federation of Engineering Organizations (WFEO).

Academician Dato' Ir Lee was a Foundation Fellow and the first Secretary General of the Academy of Sciences Malaysia (ASM). Currently he is ASM Vice-President and Senior Fellow. He is Chairman of the Board of the ASEAN Council of Academies of Science, Engineering and Technology and Similar National Organizations (ASEAN-CASE). He is a member of the Board of the Inter-Academy Council of World Science Academies.

He is an Honorary Fellow of IEM, the Institution of Electrical Engineers, UK, the Institution of Civil Engineers, UK, the Institution of Engineers, Australia and the Institution of Engineers, Mauritius. He is a Foreign Fellow of the Australian Academy of Technological Sciences and Engineering. He is the patron of the International Young Professionals Foundation.

Academician Dato' Ir. Lee was conferred the Malaysian state awards of DPMP and KMN and the Honorary Officer of the Order of Australia (AO).

2. PROFESSOR TONY M RIDLEY CBE FEng FICE

Tony Ridley is a civil engineer who worked for the Greater London Council in its early years. He has held Managing Director/Chairman/Board Member roles with the Tyne and Wear Passenger Transport Executive, Hong Kong Mass Transit Railway Corporation, London Transport, London Underground, Docklands Light Railway and Eurotunnel. He was the Professor (now Emeritus Professor) of Transport Engineering at Imperial College London 1991-99, during which time he was the Director of the University of London Centre for Transport Studies (ULCTS). He was Head of the Dept of Civil and Environmental Engineering 1997-99.

His higher education was at the University of Newcastle, Northwestern University, University of California (Berkeley) and Stanford University. He was President of the Institution of Civil Engineers (ICE) 1995-96 and International President of the Chartered Institute of Logistics and Transport (CILT) 1999-2001. He is President of the Commonwealth Engineers Council (CEC), a member of the Executive Council of the World Federation of Engineering Organizations (WFEO), and President of the Association for Project Management (APM).

3. LIDIA R. ARTHUR BRITO

Birth date: 03/13/ 1961 Birth Place: Ibo - Cabo Delgado Mozambique

Nationality: Mozambican

EDUCATION

1978-1981 "Licenciatura" in Forestry, Eduardo Mondlane University, Maputo, Mozambique

1988-1990 Master of Science in Wood Sciences, Colorado State University, USA

1990-1994 Ph.D. in Forest Sciences, Colorado State University, USA

PROFESSIONAL EXPERIENCE

Since January 2000, Minister of Higher Education, Science and Technology

Since December 1998 – December 1999 Vice-rector for Academic Affairs in Eduardo Mondlane University

September 1996 – Assistant Professor of Forestry

September 1996 to January 1999-- Head the Forestry Department and Coordinator of the Unit for Natural Resources Management and Biodiversity (GRNB).

Jan. 1995 – August 1996--Assistant Lecturer at the Department of Forestry. Head of the Wood Technology Section, Coordinator of the Natural Resources Management and Biodiversity Group at the Faculty (GRNB).

1990-1994 Graduate research assistant at Colorado State University

- pursuing studies towards Ph.D. in Wood Sciences
- research work in fire-retardants for wood finishes
- research work concerning strength of wood finishes

Graduate student at Colorado State University

- pursuing studies towards a M.Sc. in Wood Sciences
- research in wood permeability (thesis topic)

1985-1988 Assistant lecturer of Wood Sciences at Eduardo Mondlane University

1983-1985 Guest worker at Wageningen Agricultural University, The Netherlands:

- research in wood identification
- research in wood mechanics

Assistant lecturer at Faculty of Agronomy and Forestry (UEM) on training at MADEMO (state enterprise)

4. DAVID ANTHONY HOOD BE (Civil) FIEAust, CPEng, MASCE

Qualifications & Memberships

1969 University of Queensland – BE in Civil Engineering

1976 Canberra College of Advanced Education - Applied Geography, focus on Urban Planning

1982 Canberra College of Advanced Education - Urban and Regional Planning

1982 Elected Fellow of the Institution of Engineers Australia

1982 Elected Member of the Chartered Institute of Transport in Australia

1988 Elected President IEAust Canberra and Councillor of the Institution of Engineers Australia

1992 Elected Member of the Australian Institute of Project Management

1996 Elected Member of the American Society of Civil Engineers

EMPLOYMENT HISTORY - SENIOR MANAGEMENT EXPERIENCE

October 2000 – current: Chairman, David A Hood & Associates Pty Ltd. Consulting in engineering competency and recognition systems, international engineer mobility, sustainability, energy efficiency and construction management. Current contracts include delivery of the BEAM Initiative (Building Engineering Ability in Mozambique), the Vietnam/Australia Engineer Enhancement Program, delivery of the Indonesia/Australia Engineer Enhancement Program, management of research projects for the Australian Construction Industry Forum, Executive Director of Australian Building Energy Council and visiting lecturer appointments at Australian National University and University of Canberra.

May 1993 – October 2000 National Director Engineering Practice, Institution of Engineers, Australia. Responsible for the learned society functions of the Institution Also directing a number of significant government and industry funded programs in S E Asia (Indonesia, Vietnam, Thailand, and Philippines) relating to accreditation of engineering undergraduate courses, engineering practice standards, professional recognition and global mobility of the engineering profession.

Founding Director, Australian Council of Building Design Professions Limited (1994 - 2000); Director, Australian Construction Industry Forum Inc. (1994 - 2000); Councillor, Standards Australia (1993 - 2000); Director, Standards Australia (1996 -1999); Director, AE Conventions Pty Ltd (1994 - 1996); Director, Engineering Education Australia Pty Ltd (1999 - 2000); Director, EcoDesign Foundation (2000 - current).

January 1992 National Manager, Defence and Aviation, Maunsell Pty Ltd.

November 1989 General Manager, Marketing and Business Development, Civil Aviation Authority (CAA). .

October 1986 Assistant Secretary (Property Management), Joint House Department, Parliament House.

PRIOR MIDDLE MANAGEMENT AND ENGINEERING POSITIONS

Acting Assistant Secretary, Major Airport Projects Branch, Airports Division, Department of Aviation .

Acting Assistant Secretary, Services Branch, Management Services Division, Department of Aviation .

Engineer Class 5 position. Employed as Director Planning and Development, Sydney (Kingsford Smith) Airport (KSA).

Engineer Class 4. Employed on planning, development and maintenance of Commonwealth Airports in South Australia and Northern Territory.

5. R A (Bob) Pullen

Graduated in Civil Engineering from the University of the Witwatersrand in 1961. Also obtained MSc (Eng) and MBL degrees.

Worked as Research Engineer in the Hydrological Research Unit at Wits University till 1969 during which time he developed an interest and expertise in water resources and flood management.

From 1969 to 1980 Bob occupied various positions in the Department of Water Affairs and Forestry, including periods in the Construction Directorate and in Project and Water Resource Planning.

After one year in the erstwhile office of the Prime Minister as Senior Planner: Physical Development he moved to the private sector in consulting engineering. He is now a Director of BKS Group (Pty) Ltd and Managing Director of the firm's Water and Power Business Unit.

Bob served on the SAICE Council from 1972 to 1997 and was President of the Institution in 1989. He was appointed to the Council of the Engineering Council of South Africa (ECSA) in April 1991 and was elected President in 1993, the position he held until the end of the term of office of the Council in August 2001. He was appointed to the new ECSA Council and again elected President at its first meeting in August 2001.

6. PAUL ROUX

Paul Roux matriculated in 1967 at the Helpmekaar High School. After his military service he studied law at the Rand Afrikaans University and did four years of his articles in the firm of Attorneys Webster Dunbar and Saner.

He left the legal profession in 1973 and joined Barlows Tractor Division where he became the Editor of the Magazine "Civil Engineering Equipment Digest". He decided to return to law and in 1977 was appointed by the S A Council for Professional Engineers (SACPE) as an administrative officer responsible for SACPE's legal work and registration matters.

Paul Roux was appointed Assistant Registrar of SACPE in 1983 and during this period he was very actively involved with the establishment of the Boards of Control for technologists, certificated engineers and technicians.

He was appointed as Registrar in 1986. Apart from his varied responsibilities as Registrar he authored of the Engineering Profession of South Africa Act which was promulgated in 1990, and which led to the establishment of ECSA. He represented ECSA during the parliamentary standing committee debates when the Engineering Profession Bill was promulgated, and is a member of ECSA's negotiating team involved in ECSA's efforts to achieve international recognition. He represented ECSA, along with its President, on the Forum for the Professions in the Built Environment as well as subsequent negotiations with the Department of Public Works and the Parliamentary Portfolio Committee preceding the promulgation of the Engineering Profession Act, 2000.

Paul was re-appointed as the Chief Executive Officer by the new Engineering Council in November 2001.

Awards:

Merit Medal for outstanding service from the S A Council for Professional Engineers in 1991;

President's Merit Award for 1996 from the S A Institution of Civil Engineering;

Elected as Honorary Member of the South African Society for Professional Engineers in 1999.

Merit Medal for outstanding service from the outgoing Engineering Council of South Africa in August 2001.

7. HAY, Alexander James (Alec)

Pr Eng C Eng BSc(Eng)(Rand) FSAICE MICE MIMunESA

Former Deputy City Engineer, Johannesburg. At present Assistant Chief Civil Engineer, Rand Water

Engineers Mobility Forum: Leader of the Secretariat provided by the Engineering Council of South Africa (ECSA) for the EMF and the International Register Co-ordinating Committee

Vice Chairman of the ECSA Monitoring Committee for the International Register of Professional Engineers

Engineering Council of South Africa:
Member of the Executive Committee,
Chairman of International Committee,
Vice Chairman of Registration Committee Professional Engineers and Professional Advisory Committee for Civil Engineers,
Chairman of the National Building Regulations Committee, ECSA

South African Institution of Civil Engineering:
Past President, South African Institution of Civil Engineering (SAICE)
Chairman of the Joint ICE/SAICE Committee and the ICE Representative in South Africa
Former Member of the Civil Engineering Advisory Council appointed by the Minister of Transport
Past Chairman of the Civil Engineering Industry's Joint Consultative Committee
SAICE representative on National Building Regulations Technical Review Committee and member of the National Building Regulations Review Board of Appeal.

8. JUDI WANGALWA WAKHUNGU

PRESENT POSITION- Executive Director African Centre for Technology Studies (ACTS) & Adjunct Professor Penn State University

EDUCATION

Ph.D. Energy Resource Management, Penn State, 1993
MS. Petroleum Geology, Acadia University, Nova Scotia, Canada 1986
BS. Geology, St. Lawrence University, New York, 1983

RESEARCH INTERESTS

Energy Policy & Development; Science, Technology, Public Policy & Development; Gender Issues in Science & Technology Policy;

WORK EXPERIENCE

July 1997-May 2002

Director Women in the Sciences & Engineering (WISE) Institute—Penn State

January 1999-January 2000

Executive Director African Technology Policy Studies Network (The International Development Research Center & The Carnegie Corporation of New York)

July 1997 – May 2002

Associate Professor Science, Technology, & Society & Director Women in the Sciences & Engineering (WISE) Institute—Penn State

July 1996 -- June 1997

Acting Director Women in the Sciences & Engineering (WISE) Institute--Penn State

January 1996--June 1996

Associate Director Women in the Sciences & Engineering (WISE) Institute--Penn State

Fall 1993 – June 1997

Assistant Professor Science, Technology, & Society--Penn State

1994 --1995

Designated Expert (Energy) United Nations Commission on Science & Technology for Development (Gender Working Group)

1994--1996

Research Director Global Energy Policy & Planning Program/Gender Science & Development--International Federation of Institutes for Advanced Study (IFIAS) & Third World Organization of Women Scientists (TWOWS).

1993--Fall

Project Leader Renewable Energy Technology Dissemination & Support Project--Stockholm Environment Institute (SEI).

1990--1993 Instructor--Science, Technology, & Society Program-- Penn State

1986--1988 Tutorial Fellow, Department of Geology-- University of Nairobi

1985--1986 Geologist--National Oil Corporation of Kenya (NOCK)

HONORS

Designated Expert (Energy) --United Nations Commission on Science & Technology for Development –Gender Working Group –1994/95

Tutorial Fellow-- Department of Geology (University of Nairobi)--1986/88

CIDA Fellow-- Canadian International Development Agency/Government of Kenya --1984/86

INTERNATIONAL COMMITTEES

Gender Science & Development Executive Committee (International Federation of Institutes for Advanced Study--IFIAS)

Global Alliance for Diversifying the Engineering Workforce (Board)

PROFESSIONAL ORGANIZATIONS

American Association for the Advancement of Science
American Association for Women in Science
American Society for Engineering Education
Graduate Women in Science/Sigma Delta Epsilon
National Association for Science, Technology, & Society
New York Academy of Sciences
Pan-African Studies Association
Society of Women Engineers
Third World Organization of Women Scientists
Women Engineering Program Advocates Network

COMMUNITY SERVICE

National Student Campaign Against Hunger & Homelessness (NSCAHH)
Rwanda/Burundi Education Fund & Project
United Way
Women's Resource Center

9. Gisbert Glaser

Dr. Gisbert Glaser (born in 1939, German citizen), holds a doctorate in geography from the University of Heidelberg (1965). He was an assistant professor of geography and post-doctoral research fellow in geography of natural resources development at Heidelberg University for six years including one year of field research in Brazil.

Gisbert Glaser has worked in different assignments at the United Nations Educational, Scientific and Cultural Organization (UNESCO) in Paris from 1972 to 2001 when he retired with the rank of Assistant Director-General responsible for UNESCO's programmes in the natural and engineering sciences. His main focus at UNESCO until 1988 was in developing international scientific cooperation in ecosystems/natural resources research, conservation and management (Programme on Man and the Biosphere – MAB). During these years his scientific advisory, research planning, scientific capacity-building, and science management activities had a worldwide coverage and included extensive travels to and on all continents. During the last 12 years of his career at UNESCO his professional responsibilities were focused on strategic issues such as coordinating UNESCO's programmes in environmental sciences (ecosystems/biodiversity, freshwater, earth crust and oceans), enhancing interdisciplinary research including the social sciences, bridging the gap between science and policy-making for sustainable development in the context of the follow-up to the 1992 United Nations Conference on Environment and Development (UNCED), and developing a new "contract" between science and society as one of the main concerns of the joint UNESCO/ICSU World Conference on Science (1999).

He was a member of ICSU's Advisory Committee on the Environment (ACE) from 1992 to 1996. He is the author of numerous publications and reports in geography, integrated ecological research, international environmental science, and science/ society relationship issues.

In December 2001, Dr. Glaser was invited by the International Council for Engineering and Technology (ICET) to chair the international preparatory committee for the World Conference on Megacities to be held at UNESCO, Paris, in March 2005. Since January 2002, he is also Senior Advisor on Science for Sustainable Development to the Executive Director of the International Council for Science (ICSU).

10. Calestous Juma

Professor of the Practice of International Development and Director of the Science, Technology, and Innovation Program, Harvard. He is a former Executive Secretary of the United Nations Convention on Biological Diversity and Founding Director of the African Centre for Technology Studies in Nairobi, and serves as Chancellor of the University of Guyana. He is a Fellow of the New York Academy of Sciences and the World Academy of Art and Science and a member of the Kenya National Academy of Sciences. He has won several international awards for his work on the environment and development. He serves on several committees of the U.S. National Academy of Sciences on science advice for sustainable development, geographical information sciences, and biotechnology. He holds a PhD in science and technology policy studies, and has written widely on science, technology and environment. He is working on a book on biotechnology and globalization.

11. Trueman Goba

QUALIFICATIONS: PrEng, B.Sc(Eng), M.Eng(Civil), PDM, FSAAE, FSAICE

Mr Trueman Goba, President of the SAICE for 2002 is the Executive Chairman of Goba Moahloli Keeve Steyn (Pty) Ltd, a multi-disciplinary firm of consulting engineers whose main offices are in Sunninghill, Johannesburg.

Trueman first obtained a survey technician's diploma at Mmadikoti College at Seshego, Pietersburg, prior to studying at University of Natal in Durban where he obtained the BSc(Eng) degree in civil engineering. He became registered as a professional engineer in 1983.

Between 1984 and 1986 he studied at Cornell University in Ithaca, NY, focusing on Fluid Mechanics and a topic on wave sediment structure interaction. He obtained the M.Eng(Civil) degree. In 1994 he obtained a Postgraduate Diploma in Management in Public Policy and Development Administration, from the University of Witwatersrand.

He has over 22 years of experience in civil engineering in South Africa and in the USA, most of which were in design work and project management. Projects that he was involved in included tunnels, roads and bridges, drainage structures, as well as some aspects of community water supplies.

After 1994, Trueman served as a ministerial appointee in a Forum for the Built Environment Professions whose work led subsequently to the promulgation of the Engineering Profession Act, 2000. In 2001 he was appointed on the Engineering Council of South Africa (ECSA).

He also served in various committees of the SAICE, the South African Black Technical and Allied Careers Organisation (SABTACO) and the South African Association of Consulting Engineers (SAACE).

He is a Fellow of the South African Academy of Engineering (SAAE) and a Fellow of the South African Institution of Civil Engineering (SAICE).

12. David Benjamin Botha

Born in 1947 in Pretoria

BSc Engineering Degree (Civil) Pretoria University

Professional Engineer registered with the Engineering Council of South Africa

Fellow of the South African Institution of Civil Engineering

Member of the SA Institution of Municipal Engineering

Summary of professional career

Executive Director of the South African Institution of Civil Engineering since 1991

Regional Manager Infrastructure Development for low income families at the SA Housing Trust 1988 to 1990

Deputy Town Engineer, Planning and Design, Richardsbay 1982 to 1988

Assistant Town Engineer Planning and Design, Buildings and Town Planning Potchefstroom

Bursar and subsequently Assistant Engineer SA Railway & Harbours 1966 to 1975.

13. Alan Gilham

Passionately committed to achieving sustainable development in the built environment, Alan Gilham has, over the last 10 years, worked consistently at the leading edge of transformation and change in business and government. Not only as a leading expert in energy and construction management but as an expert in corporate governance and the cultural issues that affect people and their ability to put policy into practice.

He has worked for:

- UK plc to set new standards of governance and reporting
- South African Development Foundation to actively engage in sustainable development and international advocacy.
- Government agency to adapt to privatisation
- Global research foundation to accelerate growth and international activities
- UK plc managing complex client and supply chain relationships
- SMEs engaging in energy efficiency measures

As an international advisor to the RICS Foundation, he is currently responsible for bringing together The Global Alliance for Building Sustainability. With over 40 international organisations representing over 1million policy makers, businesses and practitioners from around the world, it has won the recognition of the United Nations, National governments, European Union and major institutions throughout the world.

He holds corporate membership of the Chartered Institute of Building, is Director and co-founder of Sustainability Works Limited, providing advice and guidance to public and private sector clients on corporate governance, sustainable development and the assessment of development options.

Alan Gilham has a portfolio of internationally published academic papers, publications and R & D outputs. As industry advisor to the UK's University of Westminster, he was instrumental in setting up their new MA in Sustainable Development and he will shortly be working on studies of governance and accountability in West Africa in collaboration with De Montfort University in the UK and other universities and agencies in the West Africa region.

14. Walter R. Erdelen

Assistant Director-General for Natural Sciences, UNESCO

Formal Education at the University of Munich, Germany

| | |
|-------|--|
| Ph.D. | Ecology and Zoology, 1983 |
| M.Sc. | Zoology, Botany, Genetics, Chemistry, 1977 |
| B.Sc. | Zoology, Botany, Genetics, Chemistry, 1973 |

Professional Positions

| | |
|-------------|--|
| 2001 | Assistant Director-General for Natural Sciences, UNESCO, Paris |
| 1997 - 2001 | Visiting Professor at the Dept. of Biology, Institute of Technology Bandung, Indonesia, within the German Academic Exchange Program (DAAD) |
| 1995 - 1997 | Full Professor of Ecology and Biogeography at the Department of Zoology, Institute for Animal Ecology and Tropical Biology, University of Würzburg, Germany and Director of the Ecological Field Station, University of Würzburg |
| 1993 - 1995 | Associate Professor at the Institute of Biogeography, Saarland University, Saarbrücken, Germany |
| 1988 - 1993 | Senior Lecturer and Researcher at the Institute of Biogeography, Saarland University, Saarbrücken, Germany |

1981 - 1988 Lecturer and Researcher at the Dept. of Zoology, University of Munich, Germany Research Associate at the Zoological Museum in Munich, Germany

Research Interests

- Conservation and utilization of biodiversity in the Asian tropics
- Protected area management
- Theoretical and applied biogeography
- Ecology, systematics and sustainable use of Asian reptiles

International Experience

- Research conducted since the late 1970s in Sri Lanka, India, Ivory Coast, and Indonesia
- Consultant to national and international agencies working on land use issues, nature conservation, and in the tertiary education sector, in Africa and Asia
- Reviewer of project proposals for international organizations and funding agencies
- Reviewer of papers and books submitted to international scientific journals and publishers
- Organizer of international conferences, seminars, workshops and international training courses in Europe and Asia
- External examiner for degree work in ecology and biology at Asian universities
- Teaching at Asian universities in the fields of ecology, biogeography, evolutionary biology, animal morphology and systematics
- Work on academic exchange amongst Asian universities and between Asian and German universities
- Presentations at numerous international conferences e.g., in Australia, Brunei Darussalam, Canada, England, Germany, Indonesia, Ivory Coast, the Philippines, Singapore, Sri Lanka, Switzerland, Taiwan, Thailand

Publications

Editor of three books, i.e. on tropical ecosystems, landscape management in Sri Lanka, and sustainable use of reptiles in Indonesia;

Translator and editor of a book on the natural history of New Zealand and of the Environmental Monitoring Handbook for Tsetse Control Operations;

Author of over 50 scientific papers and reviews published in international journals

Professional Affiliations (Selected list)

- Society for Conservation Biology, USA
- The World Conservation Union (IUCN), Species Survival Commission, USA
- UNESCO Paris and regional office Southeast Asia
- WCMC Cambridge, UK (World Conservation Monitoring Centre)
- Ecological Society of America, USA
- American Society of Naturalists, USA
- Society of Systematic Biology, USA
- Society for the Study of Amphibians and Reptiles, USA
- Societas Europaea Herpetologica
- German Herpetological Society
- German Society for Tropical Ecology (Founding Member)
- German Society for Classification

15. Dr Tony Marjoram, FIEAust, AMIMechE, CPEng
Division of Basic and Engineering Sciences, UNESCO

Dr Marjoram is the Programme Specialist responsible for engineering and related matters at the Division of Basic and Engineering Sciences in the Science Sector of UNESCO. Prior to moving to Paris he was the Programme Specialist for Engineering, Technology and Informatics at the UNESCO regional office for science and technology in SE Asia in Jakarta. Dr Marjoram joined UNESCO in 1993, before that he was a Senior Research Fellow at the University of Melbourne and has also worked at the Universities of the South Pacific and Manchester. He has a background in mechanical engineering, science and technology policy and has broad interests relating to engineering, education, technology and development.

16. Ir. Dr. Judin Abdul Karim K.M.N, P.J.K, FIEM, P.Eng

Academic Qualifications

- a) Doctor of Philosophy in Civil Engineering, University of Southern California
- b) Masters of Science in Structural Engineering, 1983, University of Southern California
- c) Bachelor of Science (Hons) in Civil Engineering, 1978 University of Manchester Institute of Science and Technology

Employment

Public Works Department, (PWD), Ministry of Works
Head, Civil and Structural Division 1st Sept. 2000 – to date

Concurrent Positions

- a) Secretary, Board of Engineers Malaysia – (August 1995 – to date)
- b) Secretary, Professional Services Development Corporation (October 2001 – to date)
- c) Head, Specialist Services Center Public Works Department (April 2001 – to date)
- d) National Professional Service Export Council (NAPSEC),
Member, 2002

Professional Membership

- a) Professional Engineer registered with Board of Engineers Malaysia.
- b) Deputy President, Malaysian Concrete Society 1996
- c) Honorary Secretary, Malaysian Structural Steel Association (MSSA) 1997 – to date
- d) Fellow of the Institution of Engineers Malaysia (FIEM)

Honors

- a) Pingat Kesatria Mangku Negara (Officer Of The Most Distinguished Order Of The Defender Of The Realm Medal) from His Royal Highness D.Y.M.M Seri Paduka Baginda Yang Di Pertuan Agong, the King of Malaysia, 1999.
- b) Pingat Jaksa Kebaktian (Meritorious Service Medal) from His Royal Highness Yang Di Pertuan Besar Negeri Sembilan Darul Khusus, the Ruler of Negeri Sembilan, 1989.

Academic Awards

- a) British High Commissioner's 1994/1995 Award – Attachment at the Steel Construction Institute, United Kingdom.
- b) Fulbright-Hayes Fellowship Award, 1981.
- c) Eisenhower Fellowship Award, 2002.

17. MARIA JESOS PRIETO LAFFARGUE

5/1/1945 Salamanca - Spain

EDUCATION

- 1969 - PhD. Telecommunications Engineering
Universidad Polit6cnica de Madrid (Spain)
- 1990 - Masters in Business Administration
Universidad de Navarra (Spain)
- 1995 - Certificate International Financial Course
Universidad de Navarra (Spain)

INSTITUTIONAL ACTIVITIES

2000, PRESIDENT OF SPANISH INSTITUTE OF ENGINEERING, the umbrella Federation of all the Spanish branches of Engineering.

PROFESSIONAL ACTIVITIES

1998 - FUNDACION MADRILENA DE TELECOMUNICACIONES
Director General, Responsible for creating and structuring the Organisation, establishing strategic plans and allocating funds. The Foundation is targeted towards developing the knowledge society through more intensive use of information technologies.

1996 - Dec. 1997 - SPANISH NATIONAL METEOROLOGY INSTITUTE

Director General: The National Institute of Meteorology is a scientific technical Public Organisation consisting of 1600 employees, decentralised in a Head quarter, 15 Regional Centres and 90 offices. This Institute is the Spanish Authority that deals with Meteorology

and Climatology Information Services.1994- 1996 - UNION FENOSA INVERSIONES, S.A.

Assistant to the President

Responsible for the definition and implementation of corporate strategy policies in telecommunications; had a leading role in the successful implementation of the current businesses of the company within this sector.

1991 – 1995- SISTELCOM, S.A. (Advance Telecommunications Service Private Operator)
Chief Executive Director

Responsible for designing and implementing the strategy as well as the positioning of SISTELCOM, a consortium bidding for licenses of mobile communications issued by the State of Spain. The consortium has won all licenses it has bidden for, currently having three profitable companies fully operational, profitable companies.

1990 – 1991-TELEFONICA de ESPANA, S.A.

Senior Advisor to the International and Advanced Services General Manager

Responsible for the strategic market diversification of the company, both geographical and services diversification.

1989- TELEFONICA SISTEMAS, S.A.

Assistant to the President

Responsible for the Strategic Planning and business diversification.

1986 – 1989 Managing Director

Responsible for the national management of the company.

Under my responsibility the company reached a turnover of PTSl 1,000 million and diversified its portfolio of products from one to five, achieving a strong market position.

1984 – 1985-TELEFONICA de ESPANA, S.A.

Responsible for Market Diversification

Industrial Department

1982 - 1984- Responsible for the technical support of the international activities of the company

(Networks: Argentina, Noruega y Canada) Industrial Department

1974 - 1982- Technical Manager

Area of Normalisation and Standardisation of Communications procedures for Public Data Networks. Technical Specifications for Transmission and Switching Data systems.

Telematic Division

1971 - 1974- Technical Manager

Technical Management Radio and Satellite Group Research and Development Department

1970- 1971- Project Leader

Technical Management Advanced Paging Service

Research and Development Department

TEACHING ACTIVITIES

Professor of Business Management - Chamber of Commerce and Industry Madrid - Paris

Professor of telecommunications policies- University of Navarra (Spain)

Professor of Technologies for Sustainable Development- University of Barcelona (Spain)

INTERNATIONAL ACTIVITIES

Spanish Government Representative in EUMESAT Organisations

Spanish Government Representative in International Telecommunications Union

Board Member of various Telecommunications companies.

Member of the World Science and Technological Community of Preparatory Committee II of the Johannesburg Summit for Sustainable Development 2002

AWARDS

Member of the European Women Management Network (EWMN)

Awarded European Women Executive of the Year (1989) by the EWMN

Awarded "Spain's Executive of the Year 1994" by the Chamber of Commerce of Madrid

LANGUAGES

- Spanish (native)
- English (written and spoken)
- French (written and spoken)

18. **SWATI RAUT, India**

- BS in Chemistry, University of Bombay, Bombay, India 8/90; Certificate: Systems Analyst 12/88
- Languages: English...Marathi...Hindi...French
- MS in Public Policy, Georgia Institute of Technology, Atlanta, GA 6/99; Certificate:
- Management of Technology MS in Organic Chemistry, University of Bombay,
- Bombay, India 8/92
- Coordinator, for the South of the Science and Technology segment of the NGO Steering Committee of the United Nations Commission on Sustainable Development , Organized and Facilitated South NGO Summit in Algeria, Mar. '02 , Organized and facilitated S&T Consultations in India.
- Developed for implementation, an action plan for Clean Air thro' Energy Efficiency in India
- Created a coalition to address MDGs in Mumbai under the auspices of Times Group Foundation
- Launched a Young Professionals Foundation – India to address unemployment and sustainable livelihoods as well as to promote social entrepreneurship in India

- University of Georgia's, International Center for Democratic Governance. Designed, and formulated, a project proposal to evaluate Energy policy in India and integrate Renewable Energy Technologies into the existing framework of National Energy Strategy to reduce greenhouse gases by voluntary initiatives and multi-stakeholder participation.
- U.S. Army Environmental Policy Institute: Reviewed and analyzed U.S. Army, Department of Defense, and Federal Energy Policies against Army Transformation Strategies.
- Worked on implementing Energy Policy Act of 1992, Executive Orders, - Greening the Government Through Energy Efficient Management; - Greening the Government through Federal Waste Prevention, Recycling, and Federal Acquisition; - Federal Alternative Fueled Vehicle Leadership; and – Developing the Promoting Biobased Products and Bioenergy, starting with legislative analysis, and proposing specific actions for policy gaps.
- Analyzed Kyoto Protocol and its implications for Army Energy Policy.
- Performed Legislative Gap Analysis of 104th, 105th, and 106th Congress on Climate Change and Energy Legislations
- Performed Regulatory Analysis on Department of Defense Regulations, and Army Regulations on Energy Programs, Clean Air Act, and Alternative Fuels from compliance perspective.
- Received award and an opportunity to represent the U.S. Army Environmental Policy Institute at the Down-to-Earth Conference, United Nations Environmental Department, UK in September 1999. Presented graduate papers published for conference proceedings.
- Publications: Development Paths for India; Forecasting Eco-Efficiency Tool Development Activity; A Decision Space for Making Informed Choices about Consumption Patterns By Quantifying Impacts Across Time and Space.
- Recruited by World Bank for Technical Internet assistance on behalf of the International Coral Reef Initiative. United Nations Internship: Authored position paper on Consumption and Production Patterns of Global Chemical and Biological weapons to contribute in Consumption and Production segment of UNCSD. Invited to participate and presented position paper in the Netherlands, sponsored by the Dutch Secretariat. Lobbied with Swedish, Norwegian and Netherlands government.

Georgia Institute of Technology, Atlanta, GA (7/01-Present) DIRECTOR, Science, Technology and Human Development Program

The Georgia Institute of Technology's seal commits the institution to "Progress and Service." Fulfilling that commitment on a global scale, this program fosters the use of science and technology in developing human capabilities among low-income countries, communities, and individuals. It will provide liaison between NGOs, international organizations, and organizations from developing countries and communities and the S&T resources of Georgia Tech and the University System of Georgia.

19. JAMES BRADFIELD MOODY, B.ENG (ELEC), B.INFO.TECH.

James Bradfield Moody is a PhD student at the National Graduate School of Management, undertaking research on the applications of Complex Product Systems to the international satellite industry. Complex Product Systems are high-cost, complicated systems which embody a large number of customised, interacting sub-assemblies and components.

As a key component of his study, James is working on a project to build and launch the FedSat satellite for the Cooperative Research Centre for Satellite Systems. FedSat is the first Australian Satellite to be launched in 30 years, aiming to showcase Australian space technology and increase awareness of space and space issues.

James is one of the Directors of Elements International, an International Sustainable Development consulting firm based in the United Kingdom. Elements International has undertaken a large number of projects around the world, from media projects on women's rights in Nicaragua to roundtable workshops on sustainability in the UK. Through Elements, James was also responsible for instigating projects in the Asia-Pacific region such as the Pacific Youth Caucus on the Environment and the Pacific Youth Environment Network.

James is also the managing director of Mitchell Resource Intelligence (MRI), a publicly listed environmental resource intelligence company based in Australia, which uses satellite and airborne data for natural resource management. MRI's strong focus on research and development and commercialising innovative and cutting edge technologies, concentrates on the niche area of regional investment and development, including salinity and water management, rural property evaluations and infrastructure development, forestry, viticulture and agricultural enterprise site selection.

In 1999, James was invited to become the Australian representative on the 40 strong youth advisory council to the UN Environment Program (UNEP). This council consists of young people from all around the world working to advise the United Nations on environmental affairs. In this role he has worked on issues such as sustainable consumption and cleaner production, and is a firm advocate of the role that engineers and scientists can play towards sustainability. In 2001, James was chosen to be the co-facilitator of the council. James was also currently a member of the International Science and Technological Community Delegation to the World Summit on Sustainable Development PrepComms II and IV.

James has also been involved in a number of environmental organisations in Australia, including Greening Australia and the Biological and Life Sciences Student Society. In 1997 he was the community service officer of a university club known as Golden Key, with chapters all around Australia. While in this position he developed a national reforestation program in conjunction with Greening Australia, a large environmental organization dedicated to restoring wilderness. This program was adopted nationally, resulting in thousands of Golden Key members planting trees.

Believing in the importance of community involvement, James also participates in a number of other community projects, including the organisation of a national youth space forum, SpaceFutures 2000, as well as giving his time to education and outreach organisations in Brisbane.

James was recently presented the Institution of Engineers, Australia Young Professional Engineer of the Year award for his contribution to the engineering profession, 2000 Young Queenslander of the Year for his work in the environment and 2001 Young Australian of the Year in Science and Technology for his contributions to the Australian community.