



I am Mr. ABANE Hakim born on 06/07/1973 in Algeria, married with two children. Holder of a diploma of engineer of the meteorology of the IHFR. I occupied the post of forecaster within the Office National Meteorology for four years before joining the IHFR as a teacher.

Currently I am the head of pedagogical affairs at the IHFR.

My area of expertise is dynamic meteorology and climate modelling



Dr. Moira E. Doyle received her graduate degrees (Licenciada) in Meteorology and a Ph.D. in Atmospheric Sciences from the University of Buenos Aires, Argentina. She is currently head of the Department of Atmospheric and Ocean Sciences where she works as professor giving graduate and undergraduate Meteorology courses. She is part of the team which developed an on line course on General Meteorology which is open to students from other universities with interest in meteorology and professionals. She is also a climatology researcher at the Centro de Investigaciones del Mar y la Atmósfera belonging to the Argentine National Research Council.



Bio Marinés Campos

Director in charge of RTC at SMN Argentina since 2017. Has a degree in Meteorology (UBA) and Education (UTN) and a Master's degree in Environmental Science (UBA). Has worked in research projects at UBA and Hydrological Service, environmental consultancy and as instructor at all levels. Joined SMN Training Department in 2013 and the Task Team for WMO International Cloud Atlas. Online training got started then and she adopted WMO N° 1114 to promote change. Participating in successive Tr Tr Courses, Calmet events, Vlab , and projects (CM4SH and its application), collaboration with COMET for GOES R training in Spanish, have been enriching experiences to be shared in RAIII.



Jeff Wilson - AUSTRALIA
(Retired)

Jeff was involved in the education and training of personnel involved in weather, water and climate for most of his working career. Originally training as a Glaciologist he moved to meteorology in 1980 and spent the next 27 years with the Australian Bureau of Meteorology before moving to the WMO Secretariat in early 2008. Following his retirement in mid 2016 he has assisted the Korean Meteorological Agency, the Australian Bureau of Meteorology and more recently the WMO Education and Training Office with education and training related matters

KATHY-ANN L. CAESAR
Chief Meteorologist Ag

Ms. Kathy-Ann L. Caesar is the Acting Chief Meteorologist and Head of the Meteorology Department, at the Caribbean Institute for Meteorology and Hydrology (CIMH); and the Coordinator of Meteorology, for the Bachelors of Science in the Faculty of Science and Technology at UWI, Cave Hill.

She is the co-chair for the WMO Virtual Laboratory Management Group; the co-chair of the CAeM Expert Team / Education, Training and Competencies (ET-ETC); and a member of the Task-Team on Aviation for Region III and IV. Kathy-Ann was the principal developer and instructor of the Aeronautical Continuing Professional Development distance learning program.

Kleber Ataíde

PhD in Applied Geosciences in the area of hydrogeology and environment - UnB, Master in Meteorology with emphasis on remote sensing - UFCG, baccalaureate in Meteorology - UFPA and Technologist in Data processing. Experience in the area of meteorology, with emphasis on Remote Sensing, working mainly in the following subjects: Satellite image products, PostgreSQL / POSTGIS geospatial database, energy balance, radiation balance, surface temperature and evapotranspiration by remote sensing. Complementary formations in webdesigner and programming languages PHP + MySQL, JAVA, Android Applications and Computer Graphics. He has been working in the Satellite Image Products Section of the National Institute of Meteorology since 2006.

Michelle HARDY

Michelle graduated from Université du Québec à Montréal with a Bachelor in Atmospheric Sciences and a Certificate in Education. After seven years teaching in high school, she was hired as an operational meteorologist in Environment Canada's Meteorological Service (MSC). She worked as an aviation and public forecaster and then was promoted to the specialized services chief position where she developed her client relations skills and knowledge. She recently joined the Training and Career Development Division where she manages continuous learning activities for meteorologists within MSC. Many of these activities address the needs in training in innovations in technology, tools and services implemented within the MSC as well as defining training roadmaps to help meteorologists in their career progression.



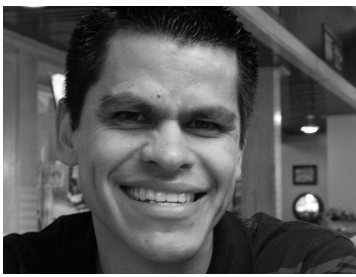
Prof. LI Beiqun

Professor, President, Vice Chancellor of Nanjing University of Information Science and Technology;

He mainly engaged in the research of ideological and political education, education economy and management, higher education management and etc.

Presided over and participated in more than ten projects such as the National Social Science Fund, Jiangsu Province Social Science Fund, China Meteorological Bureau soft Science Project and Scientific Research Plans on Education by China Higher Education Society.

He has published more than ten academic papers on CSSCI journals such as *China Higher Education Research*, *Jiangsu Social Sciences*, *Jiangsu Higher Education*, *Xuehai* and one book.



Erick R. Rivera Fernández
Biographical sketch

Erick R. Rivera Fernández is professor at the School of Physics and researcher at the Center for Geophysical Research, University of Costa Rica (UCR). His doctoral dissertation centered on the relationship between atmospheric rivers and intense winter precipitation events in Arizona. He is currently using regional numerical models to perform dynamical downscaling of climate change projections over Central America. He collaborates as instructor in the online Master's Program in Operational Meteorology and the Course of Aeronautical Meteorology for Observers, both offered by the UCR.



Biografía Rodrigo Pombosa

Nombre: JUAN RODRIGO POMBOSA LOZA

ESTUDIOS:

Secundarios: Instituto Nacional Mejía

Superiores: Ingeniero Civil AÑO 1991
Universidad Central del Ecuador.

Cuarto Nivel: Universidad Central del Ecuador.
Magíster en Gestión y Auditoría
Ambiental AÑO 2009

PRINCIPALES CURSOS DE POSTGRADOS:

- Curso Internacional Postgrado en Hidrología 1993.
Budapest-Hungría.
- Curso Internacional Postgrado en Tierra agrícola y
desarrollo de los Recursos Hídricos 1995.Tokio-Japón.
- Participación en el International Symposium on
Hydrological and Geochemical Proceses in Large Scale
River Basins 1999.Manaos - Brasil.
- Curso Internacional Techniques hydrometriques 2001.
Montpellier - Francia.
- Magister en Auditoria y Gestión Ambiental.
Universidad Central del Ecuador. 2009. Quito-Ecuador



Iryna Bashmakova

Since 2006, researcher and project manager, Atmospheric Science Division, Helsinki University, Finland (ecology, environment, water-quality, education). Graduated from Kiev University, Ukraine (1976). PhD biology (1980). External activities: PI on water quality in Italian project “Environmental management in coastal industrial area” (ENEA, 2009-11), expert in FP7 EU urban environment project MEGAPOLI (2008-11). Manager/co-manager of educational projects: TEMPUS “Competency-based curricula in meteorology” (2007-10), “QUALIMET” (2010-13); Erasmus+ “ECOIMPACT – Adaptive learning environment for competence in economic and societal impacts of local weather, air-quality and climate“ (2015-2018). Member of coordination group of Pan-Eurasian Experiment (www.atm.helsinki.fi/peex). Publications: 3 books, 51 reviewed papers, over 40 conference presentations.

24 October 2017



I am Didier Reboux, Deputy Director of ENM. L'Ecole Nationale de la Meteorologie, the French Meteorological College, is the division of Meteo-France in charge of training activities. I am the head of training and research department, monitoring training activities, and in charge of international activities. I participate to the WMO-EC Panel of Experts for Education and Training and to different international working groups.

Before ENM, I worked at the Direction of Quality of Meteo-France and, as a geographer, in the field of Earth Observation for development and control projects for Agriculture and Environment.

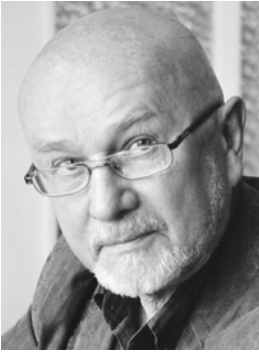
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I am Professor and Head at the Department of Hydrology, Indian Institute of Technology Roorkee, Roorkee, India. My areas of specializations/interests are Hydrological Data Analysis, Surface Water Modelling, Climate Change Impact Studies and GIS and Remote Sensing Applications,.

In the past, I have worked as a Research Scientist at Pondicherry Central University, India; as a Scientist in Punjab Remote Sensing Centre, Ludhiana, India; as a Guest Scientist, ESS GmbH, Austria, and as a Guest Faculty at UNESCO-IHE, The Netherlands.

I have authored four books and published more than 60 research papers in international/national journals and conferences. I have also executed more than 40 research and consultancy projects and organised more than 40 short-term training programs.



Sergej Zilitinkevich: *Research Professor* Finnish Meteorological Institute / *Research Director* Division of Atmospheric Sciences, Helsinki University, Finland.

Graduated from Leningrad University USSR (1959); *Ph.D.* Leningrad Hydro-meteorological University (1964); *Dr. Sci.* Acad. Sci. USSR (1970); *Prof. Geophysics* Acad. Sci., USSR (1972); *Prof. Meteorology* Uppsala University, Sweden (1997).

Publications: 9 books, >200 peer-reviewed papers, citation >5000, h-index 38. *Supervised:* 25 PhD.

Academia Memberships: Academia Europaea, Finnish Academy of Science/Letters, Societas Scientificarum Fennica, International Eurasian Acad. Sci., Royal Meteorological Society. *Honorary*

doctorates: Universities of Pretoria (South Africa), Nizhny Novgorod (Russia), Odessa (Ukraine).

Awards: EGS Bjerknes Medal 2000, EGC Wegener Medal & honorary membership.

21 October 2017



K N Mohan

Mr. K.N. Mohan received his MSc (Electronics) from Osmania University, Hyderabad. He joined India Meteorological Department in the year October-1993 as Meteorologist He started his carrier with Radar instrumentation at Meteorological Centre Hyderabad.

He has been actively involved in the design and development of various Surface Meteorological Instruments and in particular systems pertaining to Aviation Meteorology. He worked as a team leader for the installation, commissioning and up keeping of Aviation meteorological instruments at 70 airports in India including conversion of Analog aviation Meteorological instruments to Digital systems

He contributed actively in Expansion, Calibration & maintenance of all Surface Meteorological instruments including, Automatic Weather Stations, Radiation, Surface ozone, High Wind speed recorders.

He designed and developed GPA based Radiosonde. Actively participated in installation Calibration and servicing of Doppler Weather Radar.

Joined as a Head Meteorological Training Institute during October 2016 involved in imparting various training courses ie Regular, Short term and Refresher training Courses in General Meteorology, Meteorological Instruments, Actively involved as a project director for the scheme training in operational Meteorology and Capacity building.

Shri K.N. Mohan is awarded certificate of merit for outstanding contributions in the field of Atmospheric Sciences.



NAME : HERIZAL

PLACE OF BIRTH : JAKARTA

CITIZEN : INDONESIA

EDUCATION : - BSc in Physics
- MSc in Environmental Science

JOB EXPERIENCE : - Head of Global Atmospheric Watch Observatorium,
Bukit Kototabang (2007 – 2013)
- Head of Climatological Station at Semarang Central Java
(2013 – 2015)
- Director of BMKG Education and Training Center
(2015 – now)
- Director of INA RTC (2017- now)

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Marina Baldi
Institute of Biometeorology – National Research Council, Italy
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Research Scientist at CNR (1988 – present)
Director of WMO Regional Training Center in Florence (2014 – present)
Responsible of the IBIMET-CNR branch in Roma (2006 – present)
President of the Italian Geophysical Association (2011-2016)

Education: Physics Degree at the Univ of Rome (1985), Specialization in Geophysics (Univ of Rome 1984)

Specialization in “Atmospheric Air Pollution Modelling” (ICTP – Trieste, 1989)

EMS training courses on Communication skills for climatologists and WMO training courses

Research focuses: Climate variability and impacts on the biosphere and water resources, Climate extremes, Interaction between land use and land use change and climate

Project: Scientific coordinator of national and international projects on climate variability and impacts in the Mediterranean

Publication record (updated September 2017): 34 ISI papers; H-index: 12.

Web pages: <http://www.fi.ibimet.cnr.it/staff/baldi-marina>

<http://www.researcherid.com/rid/C-5134-2009>

<http://scholar.google.com/citations?user=hw5dwXsAAAAJ&hl=en>



Jung hyo Chae, PhD

Professor,

Meteorological Human Resources Development Institute,
Korea Meteorological Administration

2016-2017: Senior Researcher, WISE

2012-2016: Researcher, KIAPS

2011-2012: PostDoc. U.of Texas at Austin

2008-2011: PostDoc., NASA JPL

2008 : PhD. at Yale University

Dr. Kyungjeen (KJ) Park has formal training in Numerical Weather Prediction Model, particularly Data assimilation. He holds a B.S and M. Sc degrees from Yonsei University at Seoul, South Korea, and PhD from Florida State University at Florida, USA. He had worked at FSU, JPL/NASA and NCAR as a modeler in data assimilation areas. In 2009, he moved to Korea Meteorological Administration, and developed several operational systems: hourly cycling very short range forecast system, visibility data assimilation, rain rate data assimilation and tropical cyclone bogussing scheme. He taught various NWP and atmospheric dynamic courses. From Feb. 2017, he is a full time lecturer in Meteorological Human Resource Development Institute (MHRDI) at KMA.



Ms. Kum-Lan Kim

Head of

Meteorological Human Resources Development Institute,

Korea Meteorological Administration

2015-2016: Head of Climate Data Center, KMA

2014-2015: Director of Innovation Division, KMA

2013-2014: Director of Satellite Planning Division, KMA

BIOGRAPHIE

Olivier RAKOTOVAZAHA

Sénateur de Madagascar 2016-2017

**Responsable de la Mention Météorologie à l'Ecole Supérieure Polytechnique
d'Antananarivo de l'Université d'Antananarivo en 2016-2017**

**Chef du Département de la Météorologie de l'Ecole Supérieure Polytechnique
d'Antananarivo de l'Université d'Antananarivo : 2010-2016**

**Maître de Conférences au Département de la Météorologie de l'Ecole Supérieure
Polytechnique d'Antananarivo : 2003-2010**

**Maître de Recherches de l'Enseignement Supérieur et de la Recherche Scientifique : 1988-
2003**

**Ministre des Transports et de la Météorologie, de l'Environnement, du Tourisme et des
Eaux et Forêts 2002-2003**

Responsable de l'Exploitation Informatique de la Direction de la Météorologie : 1983-1988

RAKOTOVAZAHA Olivier, né le 28 Juin 1958 à Toliara, est père de cinq enfants.

Fils d'un Observateur responsable de la Station Météorologique de Faux-Cap-Androy

Diplôme de Baccalauréat série C en 1977,

Diplôme d'Ingénieur de la Météorologie à l'ESPA en 1982, Université d'Antananarivo a

Diplôme d'Etudes Approfondies de Physique Expérimentale, à la Faculté des Sciences,
Université d'Antananarivo, Option Energétique en 1986,

Grade de Docteur-Ingénieur en Energétique à l'Ecole Supérieure Polytechnique d'Antananarivo
en 1988,

Mastère en Administration d'Entreprise (Master of Business Administration) dans la spécialité
des Petites et Moyennes Entreprises à l'Institut des Sciences Comptables et de l'Administration
d'Entreprise (INSCAE) d'Antananarivo en 1992,

Antécédents professionnels :

Expert National en Informatique (Projet FAO MAG:86/004) dans « l'Assistance à la Direction de
l'Infrastructure Rurale dans les domaines de l'Irrigation et de la Formation »

Assistant Technique National auprès de la Coordination Nationale du Projet Régional
Environnement de la Commission de l'Océan Indien (PRE.COI/UE) responsable de l'élaboration
du Plan Directeur de Développement Durable des Zones Côtières du Menabe et du Système
d'Information et d'Aide à la Décision (SIAD) de l'Opération Pilote du Menabe en 1998.

Expert Régional GREEN-OI en matière de Système d'Information et d'Aide à la Décision du
PRE.COI/UE,

Maître de Recherches à la Division de Recherche et d'Applications GIZC (Gestion Intégrée des
Zones Côtières) au Centre National de Recherche sur l'Environnement (CNRE) du Ministère de
la Recherche Scientifique

Chef de Division " Documentation, Etudes et Projets " au Centre National de Recherches
Industrielles et Technologiques (CNRIT) du Ministère de la Recherche Scientifique, Directeur de

la Valorisation des Ressources Humaines à la Délégation à la Communication et à la Valorisation des Ressources Humaines (Primature),

Directeur de Cabinet du Ministère de la Jeunesse et des Sports,

Secrétaire Général du Ministère de la Jeunesse et des Sports,

Secrétaire Général du Ministère de l'Education Nationale

DR. CYNTHIA P. CELEBRE

Worked in the government service as a Meteorologist in 1978 and rose from the rank. She was promoted to the present position in 2010, which allowed her to formulate and implement plans, policies and procedures relative to the operational and/or research functions and responsibilities of the Division. As Head of the WMO Regional Training Center for RA V, she also directs, coordinates and controls the program of activities to ensure the effective and efficient utilization of materials and Human Resources in meeting the Agency's goals and objectives. She also serves as lecturer in the Meteorologists Training and Meteorological Technicians Training Courses including Methods of Research in the in-house training courses being conducted in the RTC. She also served as Associate Professorial Lecturer 4 at the Rizal Technological University Graduate Department.

Julia Shushkova

Joined the International Relations Office of Russian State Hydrometeorological University (RSHU), one of the component of WMO RTC in Russian Federation, in 2016. Responsible for WMO fellowship program coordination in Russia, foreign students recruiting and communication for international partners of the University.



Dr Anna Timofeeva is the Director of the WMO Regional Training Centre in the Russian Federation and the Rector of the Roshydromet Advanced Training Institute. She holds a PhD degree from the Russian State Hydrometeorological University (2011). Her academic interests include economic benefits of meteorological services and products and innovations in education.

PRESENTATION



Dr. Maria Mamaeva. Deputy Director of the State Hydrological Institute, Roshydromet. Expert in Education and Training of the EC WMO. Member of the Russian Geographical Society Council in St. Petersburg. Honoured Worker of Roshydromet. Till 2015 Vice-Rector and Head of International Relations in St.Petersburg component of the WMO RTC in the Russian Federation (RSHU). Meteorologist, PhD in physics and mathematics. Certificates in management of training institutions, project management, rational natural resources use, green economics. Diploma in university business administration from SKOLKOVO Moscow School of Management. Successful implementation several international educational and scientific projects. Interested and involved in development and realization a number of short-term professional training, in distant and face-to-face formats, in the field of applied hydrology, meteorology, QMS etc. Author of about 50 papers, proceedings, articles.



Professor in Physical Geography at University Rovira I Virgili (URV, Tarragona, Spain); Senior Researcher at URV's Center for Climate Change (C3); member of the WMO Executive Council Panel of Experts on Education and Training; Leader of the WMO's Commission for Climatology Expert Team on Education and Training, responsible for the design of Competencies for the Provision of Climate Services; Coordinator of the Project INDECIS (ERA4CS-H2020) focused on the development of Climate Services; former Director of the DOW/URV Chair on Sustainable Development.

Presentation: Training requirements for climate services, including the implementation of the WMO Climate Services Competency Framework



Ph. D., Physics, University of Salamanca (Spain). Meteorologist in AEMET as head of a unit of development and research, mainly related to operational forecasting and weather watching. I have also worked as a project manager in some fields including training activities.



Andrew Charlton-Perez is an Associate Professor of Meteorology and deputy School Director of Teaching and Learning in the School of Mathematical, Physical and Computational Sciences at the University of Reading. In addition to his research interests in Stratospheric Dynamics and Predictability, he is interested in developing best practice in the teaching of meteorology and innovation in the methods used to deliver the meteorological curriculum.



Sally Wolkowski

As Head of the UK Met Office College, Sally is responsible for the delivery of learning interventions to both internal staff and external customers. The portfolio covers meteorology and climate from basic information to degree level and beyond, ITC skills, mandatory training, soft skills and work supporting international development and industry.

In 2003, Sally joined the Met Office as a forecaster before taking up positions of Private Secretary to the Chief Exec and Head of Planning & Performance. Prior to becoming Head of the College, Sally led the international development team in the management of relationships with International Funding Institutes.



Sergiy Stepanenko, Rector of Odessa State Environmental University, prior - Director of the Odessa Hydrometeorological Institute. Employed at various academic and administrative positions since 1983, including Head of the Department of Atmospheric Physics and Climate Theory. Professor, Ph.D. (Meteorology), Doctor of Science (Geophysics).

Extensive experience in the development of programmes for training in the field of Meteorology and Climatology, organization of higher and postgraduate education in the field of Meteorology, Climatology, Hydrology and Oceanology. Head of the project group for development of MSc programme in Climatology.

President of the Ukrainian Joint Meteorological and Hydrological Society, since 2017.



Angus Mackay is a climate change adaptation specialist and lead trainer at the United Nations Institute for Training and Research. He heads UNITAR's Green Development and Climate Change Programme which provides training and capacity development services to public sector organisations in developing countries. Skills development is a strategic issue that underpins the effectiveness of all policies, plans and programmes that aim to address climate change and promote the transition towards a carbon neutral world.

UNITAR undertakes skills assessments to help countries better understand their learning needs and supports the development of national climate change learning strategies as well as policies for inclusive green economy. This includes a strong focus on evaluation for results. Angus Mackay has previously worked for a range of international organisations including the UN Department for Peace Keeping Operations, United Nations Development Programme, UK Department for International Development, World Bank, as well as private sector environmental consulting firms.



John E. Ogren
Chief Learning Officer
National Weather Service

John Ogren is the Chief Learning Officer (CLO) for the National Weather Service. He oversees training for the entire workforce including weather and water forecasts and warnings, new science and technology, Decision Support Services, Electronics and IT, and leadership development.

John's career began rising through the ranks as a forecaster, and then manager of forecast offices in many locations. He gained a tremendous amount of experience working through weather disasters including floods, tornadoes, and hurricanes. In all of his past positions, John has worked in close coordination with numerous partners, including state, federal and local emergency management, as well as non-profit disaster relief organizations.



Elizabeth (Liz) Page is the Director of the COMET Program and has worked with the organization in different capacities since 1993. During her career, she has taught at the US Air Force's Weather Training Division and has forecasted in US National Weather Service offices in southern California. Liz has also taught courses at North Carolina State University and University of North Carolina, Charlotte. Liz received her BS in Atmospheric Science from the University of California, Davis and her MS and PhD from Colorado State University. She is an active member of the American Meteorological Society and the National Weather Association.

Presentation: Increasing Education and Training capacity



Yinka Rotimi ADEBAYO

Dr. Yinka Rotimi Adebayo is the Director of the Education and Training Office, World Meteorological Organization, Geneva Switzerland. He started his career in 1983 as a university lecturer in his motherland-Nigeria and joined the services of the United Nations in 1990. He has published many peer reviewed, research based articles in renowned scientific journals. Although his original training revolves around climate, water, pollution and environment policy, Yinka has for several years built on, and applied, his competencies in the arena of academics and international environment diplomacy.

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Dr. Patrick Parrish is Chief of Training in the Education and Training Office at WMO. He has been in the training profession for 30 years, and has earned a PhD in Education. He has worked in the field of meteorology education and training for 25 years, including over 19 years with The COMET Program, before coming to WMO in August, 2012. Dr. Parrish has over 20 peer-reviewed publications that have received over 900 citations, on topics related to instructional design and technology, and cultural dimensions of learning.