



Fondation "Partager le Savoir"
Sharing Knowledge Foundation

Sharing Knowledge Conference (9)

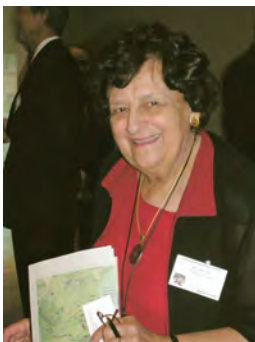
Pavilion of Knowledge– Ciência Viva, Lisbon, Portugal

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Liste des intervenant(e)s / List of speakers



Rokhsana M. Ismail ABDULRAHMAN worked for Woman's Research & Training Center – Aden University (WRTC) since 1998 until May 2010. She established this center and led it during (1998-2010). Since May 2010 she appointed as Director of Science & Technology Center at Aden University. She founded WRTC and Yemeni Chemical Society as well as Yemeni Women Association for Science and Technology for Development. Ismail has more than 15 years experience in management and leadership of integrated applied research project related to various field of science also she has more than 12 years experience in management and leadership in integrated Gender Research for development and in curriculum. In her capacity as Director for WRTC she had been responsible for research related to gender and Development. She established a Referee Journal for Gender and Development, the first referee journal issued by Arab governmental universities. She was Chief in editing of this journal during the period 2007-2010. And she was elected as Vice President of Third World Organization for Women in Science for the Arab Region, during the period 2005 – 2010, and she is elected in the same organization as member of Executive Board for the Arab Region for the period 2010-2014. She has been awarded from various International, Regional and local Organizations. She is member of GRACE- MENA.



Miriam BALABAN is a graduate in chemistry of the University of Pennsylvania in Philadelphia, PA, USA. She is founder of Desalination, the international journal for desalting and purification of water and was Editor-in- Chief from 1966 to 2009. In 2009 she launched the monthly journal Desalination and Water Treatment to accommodate the growing flood of papers in the field and enable prompt publication. She is editor and publisher of the Desalination Directory, the international online database in desalination water reuse. She is Secretary General of the European Desalination Society with headquarters in Italy where she programs and organizes courses, conferences and workshops in desalination. She is associated with the desalination program – Center for Clean Water and Energy in the Department of Mechanical Engineering of the Massachusetts Institute of Technology (MIT). She has received the Lifetime Achievement Award from the International Desalination Association and Star of Honor from the president of Italy. She has been adviser to the African Academy of Science in establishing the journal "Discover" and establishing the African Association of Science Editors.



Boubakar BARRY est le Directeur Général de WACREN, le Réseau d'Education et de Recherche de l'Afrique de l'Ouest et du Centre. Avant de rejoindre WACREN, il était Coordonnateur de l'Unité Réseaux d'Education et de Recherche de l'Association des Universités Africaines (AUA). Il a été Directeur du Centre de Calcul Informatique de l'Université Cheikh Anta Diop de Dakar où il enseigne les réseaux informatiques et l'électronique. Mr Barry est Président du Comité de Pilotage de NIC Sénégal qui gère le domaine de 1^{er} niveau du Sénégal (.sn).

Boubakar BARRY is CEO of WACREN, the West and Central African Research and Education Network. Prior to joining WACREN, he was Coordinator of the Research and Education Networking Unit at the Association of African Universities (AAU). He was Director of the Computer Centre of Cheikh Anta Diop University in Dakar, Senegal, where he is also lecturer in Computer Networks and Electronics. Mr. Barry is Chairman of the Steering Committee of the Network Information Centre of Senegal that manages the country-code top level domain .SN.



Oum Kalthoum BEN HASSINE. Holder of Doctorat d'état ès Sciences in Biology (France). Researcher in the CNRS, teacher of Biology at the University "Sciences et Techniques du Languedoc" in Montpellier & at the Faculty of Sciences of Tunis (Full Professor). Founder & Director of the Research Unit & Coordinator of the post-graduate diploma and masters. Member of the National Committee of the LMD reform & of the Executive committee of the Doctoral School. Mediterranean's Trainer in Sciences. Member of the piloting National Committee within the framework of the FEM/NGO Program of the UNEP. Founder and President of the Tunisian Association "Woman and Science".



Mustapha BENNOUNA. Depuis 2013, il est Conseiller du Président Université Euroméditerranéenne de Fès. Avant cela, M. Bennouna a été Directeur Général de « Tanger Med International Institute ». Doyen FST Tanger : 1992 – 2002 et Directeur de l'Ecole Nationale des Sciences appliquées (ENSA de Tanger) : 1998-2002. Président de l'Université Abdelmalek Essaadi : 2002-2010. Ingénieur diplômé de l'Ecole Supérieure d'Electricité (SUPELEC) – Paris 1976. Thèse de Doctorat d'Etat es-Sciences Physiques – Université Pierre et Marie Curie (Paris VI), 1982. Président du jury d'agrégation en génie électrique. Membre de la commission nationale d'attribution des Prix d'Innovation. Membre du Conseil Supérieur de l'Enseignement et de la Commission Nationale de Coordination de l'Enseignement Supérieur. Responsable de plusieurs Projets TEMPUS financés par l'Union Européenne. Membre des Comités de pilotage et du suivi du Schéma Directeur de l'Enseignement Supérieur. Membre du Conseil d'Administration du CNRST. Membre du Conseil de l'Administration de l'AUF, représentant du gouvernement marocain.



Frédéric BORDRY has a degree in engineering and a PhD in energy conversion from the National Polytechnic Institute of Toulouse (INPT). After a two-year teaching post at the Federal University of Santa Catarina (Brazil), he took up a teaching and research post in Toulouse before joining the European Organization for Nuclear Research (CERN) in 1986. From 2009 to 2013, he was the Head of the CERN Technology Department. From January 2014, he is the Director of Accelerators and Technology, responsible for the operation and exploitation of the whole CERN accelerator complex, with particular emphasis on the LHC and for the development of new projects and technologies. As a convinced advocate of international exchange in the cultural, political and scientific fields, he has devoted a considerable amount of time to reflecting on issues relating to education, research and multilingualism.

Frédéric BORDRY est ingénieur et titulaire d'un doctorat d'état sur la conversion d'énergie à l'Institut National Polytechnique de Toulouse (INPT). Après avoir enseigné deux ans à l'Université Fédérale de Santa Catarina (Brésil), il a occupé un poste d'enseignant chercheur à Toulouse avant de rejoindre le CERN (Organisation européenne pour la Recherche nucléaire) en 1986. De 2009 à 2013 il a été chef du département Technologie au CERN. Depuis janvier 2014, il est Directeur des Accélérateurs et de la Technologie, responsable de l'opération de l'ensemble du complexe d'accélérateurs du CERN, avec un accent particulier sur le LHC et pour le développement de nouveaux projets et technologies. Convaincu depuis toujours de l'importance des échanges internationaux dans les domaines culturel, politique et scientifique, il a réfléchi aux problématiques d'éducation, de recherche et de multilinguisme.



Alain BUCAILLE, diplômé de l'Ecole Polytechnique et du Corps des Mines, commence sa carrière par plusieurs postes à l'international notamment en Nouvelle-Calédonie, Japon et Australie. Il revient en France dans les années 80 et participe à l'instruction de diverses réformes fiscales (Crédit d'Impôts Recherche, Taxe Professionnelle, IS). Il est rapporteur de la Commission Recherche & Innovation du 10^{ème} Plan. Il rejoint ensuite en 1989 le groupe Lafarge en tant que Directeur de filiale, puis Directeur de la recherche et de l'Innovation du groupe. En 1997, il devient Directeur Général chez Hermès et assume cette fonction durant quatre années. Il préside à la commission de la lutte contre la contrefaçon du Comité Colbert. Il enseigne de 2000 à 2010 l'histoire de la pensée à HEC, puis l'avenir de l'énergie depuis 2011. Il rejoint AREVA en 2001, comme Conseiller auprès de la Présidente du Directoire jusqu'en 2005 puis de fin 2005 à début 2011 Directeur de la Recherche et de l'Innovation du groupe. Il est redevenu depuis Conseiller auprès du Président du Directoire d'AREVA. En janvier 2010 il est nommé professeur à l'Imperial College de Londres et publie un rapport disponible sur le net intitulé « A global legal framework to meet the climate change challenges ». Deux ans plus tard, l'Imperial College conduit une modélisation chiffrée des coûts pour l'humanité de la transition énergétique qui sera publiée d'ici mars 2013. Toutes les compétences énergétiques concernées ont été mobilisées aux fins de rendre cette prospective la plus étayée possible au vu des savoirs disponibles.



Jacques CHENAIS est Directeur délégué des SMRs au sein de la Direction de l'Energie Nucléaire du CEA et coordinateur du consortium SMR réunissant EDF, AREVA, DCNS et le CEA. Jacques Chénais a été préalablement : Directeur de la Propulsion Nucléaire au sein de la Direction des Applications Militaires du CEA de 2001 à 2010. Directeur de l'Ingénierie chez Technicatome (devenu AREVA TA) de 1996 à 2001. A différents postes à responsabilité dans le domaine de la Propulsion Nucléaire, depuis son entrée chez Technicatome en 1975. Jacques Chénais est diplômé des universités de Nantes et d'Orsay (maîtrise de Physique et DEA de Physique des réacteurs) et Ingénieur du génie atomique (INSTN Saclay). Il est chevalier de l'ordre national du mérite et chevalier de la légion d'honneur.



Iza **CIGLENECKI**, Project manager, Initiative for innovations at Médecins Sans Frontières Switzerland.



Pascal COLOMBANI: chairman of the board, Valeo; also member of the boards of Alstom, Technip, Energy Solutions, and chairman of the advisory board, A.T.Kearney Paris. Dr Colombani has been chairman and CEO of the French Atomic Commission (CEA), founding chairman of Areva, member of the boards of Electricite de France, British Energy, Rhodia, and of Institut Français du Pétrole. He began his career at CNRS in nuclear physics in France and California, and spent twenty years with Schlumberger, the oilfield service company, in the USA, Europe, and Japan. He is regularly consulted on energy, defense, and high technology topics and has been an advisor to the French government and the European Commission.



António COSTA SILVA is Chairman of the Management Commission of PARTEX OIL AND GAS Group. PARTEX is involved in oil and gas operations in Abu Dhabi, Oman, Kazakhstan, Brazil, Algeria, Angola and Portugal. He is also Professor at IST (Technical University of Lisbon) where he got his aggregation in Planning and Integrated Management of Energy Resources. He holds a MSc in Mining Engineering from (IST), a MSc in Petroleum Engineering from the Imperial College (University of London) and a Doctorate Degree from the Technical University of Lisbon and Imperial College.



João CRESPO. Professor of Chemical Engineering at Universidade Nova de Lisboa, Portugal, where he is Vice-Rector for Research and Innovation, and Director of Nova Doctoral School. Former Vice-President of Fundação para a Ciência e a Tecnologia (Portuguese National Science Foundation) and former Academic Dean of the Faculty of Sciences and Technology at NOVA. Member of the editorial board of Journal of Membrane Science, Journal of

Biotechnology, and Desalination and Water Treatment. Member of the portuguese “Academia de Engenharia”. Author of more than 160 publications referred in the Web of Science. Founder of the spin-off company “Zeyton Nutraceuticals”. Research interests: Membrane separation processes; Membrane bioreactors; Process monitoring.



Ingénieur agronome, **Jean-Christophe DEBAR** a débuté comme agro-économiste à l'ambassade des Etats-Unis en France, avant de devenir consultant sur les questions d'économie et de politique agricole internationales et de lancer la lettre mensuelle Agri US Analyse, consacrée à l'agriculture américaine. Depuis 2011, il dirige la Fondation pour l'agriculture et la ruralité dans le monde (FARM), basée à Paris, dont la mission est de promouvoir dans les pays du Sud des agricultures et des filières agroalimentaires productives et durables. FARM mène des actions de think tank et soutient des projets pilotes en Afrique, en s'appuyant sur une vision entrepreneuriale de l'agriculture centrée sur l'émergence de petites et moyennes exploitations capables d'approvisionner les marchés locaux.

Trained as an agronomist, **Jean-Christophe DEBAR** started his career as an agro-economist at the Embassy of the United States in France. He has been a consultant in international farm policy and agricultural economics, and the editor of Agri US Analyse, a monthly newsletter on US agriculture. Since 2011, he has been the director of the Foundation for World Agriculture and Rurality (FARM), based in Paris. FARM is a think tank devoted to the promotion of productive and sustainable agricultures and food value chains in developing countries. It also supports producer organizations in Africa. FARM's entrepreneurial vision of agriculture focuses on the emergence of small and medium farms able to supply local markets.



Nathalie DELAPALME, Executive Director – Research and Policy, Mo Ibrahim Foundation. Nathalie Delapalme was previously a French senior civil servant. Her most recent position was Inspector at the Inspection Générale des Finances. Prior to this, Mrs Delapalme served the French Government as an advisor for Africa and Development in the offices of various Foreign Affairs Ministers, between 1995-1997 and 2002-2007. She also served the French Senate as advisor for the Finance and Budgetary Commission, where she assessed fiscal and public expenditures and policies between 1984–1995 and 1997–2002.



Thierry DE MARGERIE. Since 1995, ALSTOM: International positions of sales management in the Power Generation and Rail Transport Sectors, and of corporate management in the International Network of the company. Based in Paris, Hong-Kong, and Morocco. Thierry de Margerie is presently Vice President of Alstom International for Africa. 1980 to 1995: LEROY-SOMER (EMERSON Electric Group) Industrial plant and industrial division general manager. The company is in the business of electric motors and generators. 1976 to 1980: Délégation à l'Aménagement du Territoire, France Consultant for small and medium size companies willing to develop in rural regions. 1974 to 1976: French Entrepreneurs Association (CNPFF, Paris) Junior advisor for housing and regional development policies. Thierry de Margerie is graduated from Institut d'Etudes Politiques de Paris, and from Paris University (Economics) (1967-1972). Served in the French army (Cavalry) as a junior officer.



Jean Bienvenu **DINGA** est Directeur Scientifique de l'IRSEN, Brazzaville, République du Congo. Je suis Physicien- Hydrologue, Directeur scientifique du groupe de recherche en sciences exactes et Naturelles au Ministère de la recherche Scientifique et de l'Innovation technologique, je suis le conseiller en Hydrologie du représentant Permanent du Congo auprès de l'Organisation Mondiale de la Météorologie. J'ai en charge le service hydrologique du Congo. Dans le cadre du Bassin du Congo, je suis le point focal et la personne ressource dans les programmes CongoHycos et MESA dans la gestion intégrée des ressources en eau dans le bassin du Congo qui est le deuxième Bassin au monde après celui de l'Amazon. Au niveau local, l'un des projets fait est la sécurisation du barrage hydroélectrique d'Imboulou sur la rivière Léfini, la réhabilitation des stations hydrométriques.



Zoé **DRUILHE** is Liaison Officer at United Nations Food and Agriculture Organization (FAO), Brussels, Belgium. Professional in development aid and humanitarian affairs: • Eight years experience at the World Bank and the United Nations, headquarters and field • Development economist with also a Masters in business & management • Expert in programme development, coordination and advocacy in coalition settings • Hands-on experience of project and team management • Worked extensively with multi-stakeholders/interagency initiatives • Specialized in rural development, livelihoods resilience and food security



John ELLIS is a theoretical physicist who works closely with experiments, suggesting, predicting and analyzing measurements. He has been associated with CERN for many years. In particular, he has been involved with the LHC and its experimental program since its inception, and is currently researching on the Higgs boson. He has for many years also been active in opening CERN to scientists from many countries around the world that are developing their activities in fundamental physics research, notably those in the Middle East and Africa. He is now Clerk Maxwell Professor of Theoretical Physics at King's College London.



Patrick FASSNACHT. I started in Experimental Nuclear and Particle Physics at the University of Strasbourg in 1979. Moving later to the Centre de Physique des Particules in Marseille I also moved to High Energy Physics joining the CPLEAR collaboration (focus on CP violation; matter/antimatter) and finally to ATLAS (one of the large LHC experiments at CERN). To the latter I contributed as Test Beam coordinator and later, for six years, as Technical Coordinator of the ATLAS Liquid Argon Calorimeter system. I was responsible for getting the calorimeters assembled, integrated into the cryostats and commissioned. From April 2004 onwards, for a period of more than six years, I was acting as CERN ATLAS Team leader. During that period I had numerous interactions with the many ATLAS Users coming to CERN; which led me to become from early 2012 on Advisor to the DG for the MENA.



Jean Pierre FAVENNEC, Consultant WDCooperation, Professor, IFP School, President of the Association for the Development of Energy in Africa. Jean Pierre Favennec, was Director, Expert up with IFP Energies Nouvelles up to 2009. He is the manager of WDCooperation, specializing in consulting and education. Jean Pierre Favennec is a specialist in energy, including energy economics, geopolitics and the strategic aspects. He has written a number of papers on these subjects. He is the author of several books: *Refining Economics and Management*; *Research and Production of Oil and Gas : Reserves, Costs, Contract*; *Energy : at which price ?* and *The Geopolitics of Energy*. Jean-Pierre Favennec is teaching in many Universities. He is also speaking in many international conferences and seminars. Jean-Pierre Favennec is also the director of the Energy Summit in Africa, held each year in Africa.



José Mariano GAGO est un physicien et homme politique portugais, qui a occupé le poste de ministre de la Science, de la Technologie et de l'Enseignement supérieur. Licencié en génie électrotechnique de l'Université technique de Lisbonne, il est également titulaire d'un doctorat de physique obtenu à l'Institut supérieur technique (IST) du Portugal. Il a exercé son métier de chercheur en physique expérimentale des particules élémentaires à l'École polytechnique de Paris, au sein de l'Organisation européenne pour la recherche nucléaire (CERN), à Genève, et au Laboratoire d'instrumentation et de physique expérimentale de particules (LIP) de Lisbonne. En sa qualité de président du Conseil national de la recherche scientifique et technologique (JNICT) entre 1986 et 1989, il fut responsable de la mise en place du Plan de mobilisation pour la science au Portugal. En 2004, il est élu président de l'Initiative pour la science en Europe (ISE), une plate-forme qui regroupe les plus grandes sociétés, laboratoires et autres institutions scientifiques européens. Activité politique : Le 28 octobre 1995, il est nommé ministre de la Science et de la Technologie par António Guterres dans son premier gouvernement. Il fut reconduit le 25 octobre 1999 dans le second cabinet Guterres. Au cours de ses deux mandats consécutifs, il dynamisa, aussi bien au Portugal avec Ciência Viva, que dans l'Union européenne, les initiatives en faveur de la culture scientifique et technologique. Durant la présidence portugaise de l'Union, en 2000, il assura la préparation de la stratégie européenne pour la société de l'information, la science et la technologie avec la Commission européenne. Les socialistes ayant perdu les législatives anticipées du 17 mars 2002, Mariano Gago quitte le gouvernement le 8 avril suivant. Il y revient cependant le 14 mars 2005, lorsqu'il est nommé ministre de la Science, de la Technologie et de l'Enseignement supérieur par le nouveau Premier ministre José Sócrates. Il est remplacé le 21 juin 2011 par Nuno Crato.



William GARNIER is in charge of all aspects of communications and outreach at the Square Kilometre Array (SKA) Organisation and coordinate communications activities around the world with partners from about 15 countries. William has been working in the science communication and outreach fields for 12 years. He first started as a freelance journalist in France and then as a science communicator in major international astronomy organisations. After 2 years at the ESO (European Southern Observatory) offices in Chile, he set up and led the communications department of the world's largest radio telescope, ALMA (Atacama Large Millimeter Array) in 2007. One of the projects he is most proud of is the implementation of an educational programme in a rural and remote village close to the telescope site in Northern Chile, which had a tremendous impact locally not only on the students but on the entire population, acting as a real boost for the local development. In November 2012, he accepted the challenge to lead the global communications effort of one of the greatest scientific enterprises of the 21st century: the SKA telescope.



Lionel GBAGUIDI Dr Gbaguidi Lionel est un épidémiologiste vétérinaire. Praticien privé et consultant pour la FAO, l'USAID, il travaille depuis 2003 sur les filières agricoles et sur le contrôle des maladies animales transfrontalières et zoonotiques. Il a par ailleurs développé des compétences en matière de mise en œuvre de l'approche one Health dans les systèmes de santé publique et vétérinaire dans les pays en voie de développement. Il est titulaire d'un Master en Epidémiologie de l'Institut de Médecine Tropicale d'Anvers (Belgique), d'un Doctorat en Médecine vétérinaire de l'ENMV de Sidi Thabet (Tunisie), d'un DESS en Toxicologie de la Faculté de Médecine de Tunis et d'un CES en pathologie aviaire de l'ENV d'Alfort (France)

Lionel **GBAGUIDI** is a veterinary epidemiologist. Private practitioner and consultant for FAO and USAID, he is working in West Africa since 2003 on agricultural value chains and on the control of Transboundary Animal Diseases. He has also developed competences in the implementation of the one health concept for public and veterinary health systems in developing countries. He holds an MSc in epidemiology (Data collection and analysis) from Institute of Tropical Medicine of Antwerp (Belgium), a DVM from Tunisia National Veterinary Medicine School, a Master in Toxicology from Tunis Medical School and a graduate certificate in avian pathology from French National veterinary school of Alfort.



Olivier GRABETTE est un ingénieur français de 47 ans diplômé de l'école supérieure de l'espace et de l'aéronautique. Il a occupé différents emplois au sein d'Electricité de France puis RTE depuis plus de 20 ans dans les domaines de l'ingénierie et de la maintenance des réseaux d'électricité à haute et très haute tension. Il coordonne le programme de recherche et développement de RTE depuis 2010 et a pris la tête de la direction de la recherche développement innovation de RTE créée en janvier 2012.

Olivier GRABETTE is a French, 47 years old Engineer, graduated from the Aeronautic and Space Engineering School. He 's been holding different positions at Electricité de France and Réseau Transport Electricité in the fields of engineering and maintenance of the high and extra high voltage electrical network in France and abroad for more than 20 years. He's been coordinating the RTE's R&D program since 2010 and is presently the director of the Research Development and Innovation Direction of RTE which was created on January 2012.



Giovanni GRASSO is General Director of Columbus Superconductors SpA. Previous Positions : Since 1990, he is active in the development and application of high temperature superconductivity. He carried out his PhD on the development of BSCCO superconductors at the University of Geneva under the supervision of Prof. René Fluckiger, until 1997. Afterwards he joined INFM as Senior Scientist, with the goal of establishing a new National Laboratory for Innovative and Artificial Materials, before leaving for Columbus Superconductors in 2006. While to the present position, he was Technical and Commercial Director. He is co-author of more than 200 publications on international journals and he is inventor of several international patents.



Amal HADDOUCHE is a chemical Engineer. She started her career in 1985 in the private sector (ceramic) before joining the Ministry of Energy and Mines in 1987. She covered several positions: Head Division of Petroleum Products, Head Division of Exploration and Natural Gas and Director of Electricity and Renewable Energy. On May 2005 Mrs Haddouche was appointed General Director of the Renewable Energy Development Center (CDER). In particular, she contributed to the preparation of the National Strategy for Renewable and Energy Efficiency: 2020 Vision. This strategy has been presented during a national conference (Assises de l'Energie) on march 2009. On June 2009, she is appointed General Engineer (Ingénieur Général) at the Ministry of Energy, Mines, Water and Environment. She covered the position of Technical Advisor for two former ministers of Energy, Mines, Water and Environment.



Pedro HORTA presents a 12 years experience on the Solar Thermal energy field. Researcher at the University of Évora, develops research activities on the field of line-focus concentration systems design, testing and their applications on the medium and high temperature ranges: CSP, polygeneration, process heat, solar Desalination. Its expertise includes the optical design and assessment of concentrating systems and the development of multi-component solar-driven systems.



Abdeslam HOUMMADA est à la Direction des Sciences, Académie HASSAN II des Sciences et Techniques. Avant cela, il enseignait à l'Université HASSAN II Aïn Chock de Casablanca depuis 1985. Il a eu un Doctorat d'état en physique des particules en 1985 à l'Université Joseph Fourier de Grenoble, où il a travaillé en tant que maître assistant de 1982 à 1985. Spécialiste de la physique des neutrinos, il a principalement émis pour la première fois en 1995 l'anomalie neutrinos à 2.5 sigma des expériences neutrinos auprès des réacteurs. Il travaille depuis 1992 sur l'expérience ATLAS auprès du LHC au CERN, et il est depuis 1996 le responsable du groupe Marocain et le représentant du MAROC au CERN.



Robert KLAPISCH, a French physicist, was Director of Research at CERN (1981-1987) and adviser (1989 to 1993) to the Director General Carlo Rubbia. He co-authored with Rubbia the proposal for the Energy Amplifier (a new approach at nuclear energy (1993-1997). In 2002, he was appointed by President Chirac to the Committee preparing the "Charte de l'Environnement" that has since become a part of the French Constitution. As President of the French Association for the Advancement of Science (2000 to 2003), he advocated a North-South Scientific Dialogue between scientists from Europe and those from Less Developed countries from the South and East Mediterranean and the African Continent, as a privileged means to avoid the infamous "Clash of Civilisations". This led him to set up in 2006 a dedicated "Sharing Knowledge Foundation" (SKF) which he chairs. President Sarkozy promoted him Officier de la Légion d'Honneur in 2007.



Jean Louis **LACOMBE** est engagé de façon bénévole dans de nombreuses activités tournées vers le renforcement de la place des sciences dans la société. Avant de prendre la retraite, il était Vice-président Technologie et Innovation d'Airbus Group (EADS) et Délégué Général de la Fondation d'Entreprise EADS dont il a organisé la création. Il a conduit sa carrière dans les entreprises du secteur de l'espace, des systèmes d'informations, de l'aéronautique et de la défense. Ingénieur des Arts et Métiers, il a été membre du Comité National de la Recherche Scientifique et a participé à de nombreux comités scientifiques de laboratoires.



Dominique LEGLU est une scientifique et une journaliste. Après avoir obtenu un doctorat en physique nucléaire et physique des particules (1978), Dominique Leglu a suivi une formation au Centre de formation des journalistes à Paris (CFJ, promotion 1980). Elle travaille comme journaliste reporter à Libération, où elle devient responsable des pages Sciences à partir de 1985. Elle crée le supplément scientifique EUREKA en 1990. Elle devient rédactrice en chef adjointe de Libération en 1997. Collaboratrice de la production télévisuelle Télémages en 2000-2001, elle est l'auteur d'une mini-série à caractère scientifique pour France 2 Parlez-moi d'amours et d'émissions spatiales pour France 3. Elle est rédactrice en chef de la revue Ciel et Espace d'octobre 2002 à août 2003. Elle est directrice de rédaction du mensuel scientifique Sciences et Avenir depuis septembre 2003. Elle collabore aussi chez Laffont.



Henry MARTY-GAUQUIÉ, Directeur, Liaison avec les Organisations Internationales non communautaires et du Bureau de représentation du Groupe Banque européenne d'investissement (BEI) à Paris. 1978: après un doctorat en Droit international (Université de Paris X, Nanterre), une spécialisation en Droit européen (Université de Paris I, Panthéon-Sorbonne) et un Diplôme de l'Institut de Sciences Politiques de Paris (Sciences-Pô, Paris), il débute sa carrière au service du Premier Ministre français (Raymond Barre) au secteur juridique du S.G.C.I. actuellement S.G.A.E. De 1981 à 1982, Premier Référendaire du Juge français, Fernand Grévisse, à la Cour de Justice des Communautés européennes. De 1982 à 1989, à la Cour des Comptes des Communautés européennes où il exerce successivement les fonctions de juriconsulte, et de directeur de Cabinet du Président de la Cour (1986-89). En 1989, rejoint la Banque européenne d'investissement (BEI) où il devient Directeur de la Communication et Porte-parole de la BEI. En octobre 2003, il est nommé Directeur du Bureau du Groupe BEI à Paris et Directeur des liaisons avec les Organisations Internationales non communautaires. M. Marty-Gauquié est également Administrateur du *Centre de Marseille pour l'Intégration en Méditerranée* (CMI).

Henry MARTY-GAUQUIÉ, Director, Liaison with non-EU International Organisations and of the Representative Office in Paris of the EIB Group. 1978: with a PhD in International Law (University of Paris X), a specialisation in European Law (University of Paris I) and being graduated from the Institute of Political Sciences of Paris, he begins his career working for the French Prime Minister (Raymond Barre) in the legal department of the General Secretariat of the Interministerial Committee for European Cooperation (S.G.C.I. now S.G.A.E). From 1981 to 1982, he is First Secretary at Law of the French Judge (Fernand Grevisse) at the European Court of Justice. From 1982 to 1989, he works at the European Court of Auditors, first as Legal Advisor and then as the Director of the President's Private Office (1986-89). In 1989, he joins the

European Investment Bank where he is first in charge of the development of the Bank's communication policy and then, in 1995, Director of Communication and spokesman of the EIB. In October 2003, he is appointed Director of the EIB Group Representative Office in Paris and Director of liaison with non EU International Organisations.



Chomora MIKEKA is a young professor holding a PhD from the Division of Physics, Electrical and Computer Engineering at Yokohama National University, Japan. His PhD research was about power autonomous sensor radio based on cellular and digital TV RF energy harvesting. He has vast experience on research in ICT for agriculture, health and education. He is an innovator and has collaborated in the design, simulations and fabrication of an ultra low power DC-DC buck boost converter with regulated output for less than a milliwatt RF energy harvesting used in modern day communications devices. This was done with colleagues in Spain. He has held a Lecturer position at the Graduate School of Information Technology (Kobe Institute of Computing), training 30 African participants on Problem Resolution for Development Issues by Information and Communication Technology (ICT) *(J11-30012)* (a JICA funded project). Apart from being a lecturer, Dr. Chomora Mikeka coordinates the e-Communications Research Group (eCRG) on several research topics and projects, one such being on TV White Spaces Technology for Broadband Rural-Connect in Malawi. In 2013, this unit became the Center of Excellence in the country on ICT as awarded by the National Commission of Science and Technology. Dr. Mikeka has several Awards including the 2009 European Microwave Association Student Challenge Prize in Rome (Italy). He won the 2011 IEEE RWW, Biomedical Radio and Wireless Technologies, Network and Sensing Systems Second Best Paper Award in Phoenix, Arizona (USA). He won the IEEE RFID-TA 2011, Third Best Paper Award in Sitges, Barcelona (Spain). He won the 2010 Yokohama National University International Science Exchange Encouragement Award in Yokohama (Japan). He is the 2014 - 2019 Junior Associate of the International Center for Theoretical Physics (ICTP) in Trieste, Italy. His biography is included in the 27th edition of Marquis Who's Who in the World. He is the Laureate of IBC TOP 100 ENGINEERS in 2010.



Mousa S. MOHSEN is a Professor of Mechanical Engineering; currently he is the Dean of School of Engineering at the American University of Ras Al Khaimah. His research interests are energy systems, renewable energy, water treatment and desalination, integration of energy and water systems, environment and decision making. Prof. Mohsen managed and coordinated several research projects that are funded by regional and international agencies such as European Commission, Middle Desalination Research Center and NATO science for peace program. Prof. Mohsen is the Editor-in-Chief for the International Journal of Sustainable Water and Environmental System and he is an associate editor for other international Journals.



Didier MONTET leads the team of Master of contaminants along the food chain at CIRAD in Montpellier, France. He got his Ph.D in Food microbiology in 1984 at the University of Montpellier and his HDR in 1993 at the University of St Jérôme Marseille. He is also vice-chair of Biotechnology group at the National French Agency for food-safety (Anses). His main research topic concerns the understanding of the microbial ecology of food and food-safety. He has published nearly 120 articles in the field of food. He currently runs a Europe Aid Project in Côte d'Ivoire and participates in different European projects (Collab4Safety, After). He was food expert for the French Embassy to

the south-east Asia and was professor at the Asian Institute of Technology in Thailand (1997-1999). He managed also in this region an Asia link program concerning an international master in food technology. His main actual topics are linking process to microbial ecology, organic food to microbial ecology, geographical origin to microbial ecology and fungal ecology to mycotoxin production.



Joël PAIN est Directeur Général de Planet Finance et Planet Finance France et également Président du fond de capital risque solidaire FinanCités. Joël a passé 7 ans chez Deloitte. A l'issue de cette période, il rejoint Caisse des Dépôts - Développement (C3D) en tant que Responsable de la Veille Stratégique. Il crée ensuite Up&Up, société de capital risque d'amorçage, puis Evanéo, société de commerce équitable de produits non – alimentaires. Il rejoint le Groupe PlaNet Finance en 2010. Diplômé de l'EM Lyon, de l'IEP de Lyon, titulaire d'une Maîtrise d'Economie et du DESCF, Joël a 4 enfants, est marathonnier et skieur.



Alison PARKER currently has a large research activity in technologies for urban sanitation. She is leading Cranfield University's response to the Bill and Melinda Gates Foundation's challenge to "Reinvent the Toilet", using novel membrane technology to treat human waste on-site. She is also involved in developing and testing technologies to treat faecal sludge from pit latrines and container toilets including anaerobic digestion and pyrolysis. This involves characterising the waste and optimising its reuse. She is working at both ends of the technology development process - helping to develop a novel technology for EPSRC and in testing "off the shelf" systems for WSUP. Supporting stakeholders to provide safe water supplies is another research focus through Alison's work in WASHTech project, a European project aiming to help African decision makers decide which water and sanitation technologies to use in their projects and Community Water Plus, an AusAID funded project aiming to understand what support communities in India need to manage their water supplies. She also has research students working on Water Safety Plans in Malaysia, Nigeria, Jamaica, India and Uganda and on the transition of urban communities between informal supplies and piped systems in Kenya. She is the Course Tutor of the MSc in Community Water and Sanitation.



João A. PEÇAS LOPES is Full Professor at the Faculty of Engineering of Porto University (FEUP). He is presently member of the board of Directors of INESC Porto. He is also Director of the Sustainable Energy Systems PhD program in Portugal and FEUP. He was the leader of several R&D projects, consulting projects and contracts with the industry in Portugal and abroad. His main domains of research are presently related with large scale integration of renewable power sources, Off-shore wind generation, power system dynamics, microgeneration and microgrids, smartmetering and electric vehicle grid integration. He is author or co-author of more than 250 papers and co-editor and co-author of the book "Electric Vehicle Integration into Modern Power Networks" edited by Springer.



Vanessa PEREIRA has a MSEE and PhD in Environmental Engineering from the University of North Carolina at Chapel Hill, USA. Her research in the Laboratory of Membrane Processes of iBET focus on developing low-cost, environmental friendly and sustainable disinfection and advanced oxidation treatment processes, for domestic and industry applications, able to cope with future challenges in the water research area. She has been involved in several research projects funded by the Portuguese, USA and European financial mechanisms and published 19 peer reviewed papers in international journals, 2 invited book chapters, and more than 40 abstracts in conference proceedings.



François PIUZZI. Physico-chimiste (recherche fondamentale) Docteur en Physico-Chimie et HDR. Ingénieur de recherche au Commissariat à l'énergie Atomique (CEA) depuis 1982. Enseignement : cours application des lasers en Physico-Chimie (Université Paris XI (Orsay) et Université Paris VI (Jussieu). Rapporteur à l'Agence Nationale pour la Recherche (ANR) « Comité scientifique Sciences pour l'Ingénieur » (2005-2007). Chairman du groupe inter divisions "Physics for Development" de la European Physical Society (EPS) (depuis 2009). Membre du Conseil de la Division de Physico-Chimie (SFC-SFP) (depuis 2004). Nombreuses activités de coopération internationale. Fondateur et ex-président de

l'association « Puya de Raimondi », coopération scientifique franco-péruvienne . Professeur honoraire de l'Université Nationale des Ingénieurs (UNI) (2005) et de l'université Ricardo Palma (2013), Lima Pérou.



Eliezer RABINOVICI is Professor of Physics, holding the Leon H. and Ada G. Miller Chair of Science at the Racah Institute of Physics, Hebrew University of Jerusalem. He received there his BSc (1969) and MSc degrees(1971). He completed his PhD at the Weizmann Institute of Science in 1974. He was a postdoctoral fellow at Fermilab (1975-1976) and at Lawrence Berkeley Lab (1977). He has been at the Hebrew University since 1978 as Senior Lecturer, Associate Professor (1981) and Professor (1985). His area of research is theoretical high-energy physics, in particular quantum field theory and string theory. He was awarded the Miller Visiting Professorship at UC Berkeley (2003) and a Simons Distinguished Visiting Scholar at KITP UCSB (2014).

He has been a fellow at the IAS Princeton and a visiting professor at the Michigan-Ann Arbor, Rutgers and Stanford Universities. He has also been a visiting Professor at several European institutes, among them CERN, a Kramers Professorship at Utrecht (1996), a Humboldt Fellow at Golm/Berlin and Munich (since 2008), a Leverhulme visiting professor at Imperial College London (2011) and a visiting position in SISA, Italy (1989-1993). He was awarded a Blaise Pascal International chair at Paris VI and ENS (2013). He was awarded the Louis Michel visiting chair at IHES, France (2015). As part of his service to the scientific community in Israel, he was the chair of the Racah Institute of Physics, the director of the Israeli Institute for Advanced Studies (2005-2012). He is the current chair of the Israeli Committee for High Energy Physics. He serves on the Editorial Board of JHEP and until 2014, was on the editorial board of Nuclear Physics B. He was a member of the advisory committee of many large and small international meetings. He has served for over eight years in such capacities at the GGI Institute in Florence, Italy. For nearly 20 years he has been one of the leaders in the creation of the SESAME light source, a unique, regional, high-quality scientific laboratory now under construction in Jordan. In the development of SESAME he works closely with US scientists and with APS representatives. He is currently an Israeli delegate to the SESAME Council and SESAME's Vice-President-elect.



Carlo RUBBIA, an Italian Physicist shared the 1984 Physics Nobel Prize with Simon Van der Meer for the discovery of the W and Z particles. He has been Director General of CERN from 1989 to 1993. He has held a number of high level advisory positions among which for the EU President Barroso and the United Nations Special Commission for Latin America. Since June 2010. He is Scientific Director of the Institute for Advanced Sustainability Studies (IASS) based in Potsdam. He still maintains a front line activity in fundamental physics, leading the ICARUS collaboration that has installed at the Gran Sasso laboratory, a very sensitive liquid Argon neutrino detector, than can be called an electronic bubble chamber. Simultaneously, since the '90s he has pioneered novel approach to nuclear energy – the Energy Amplifier –also able to destroy long-lived nuclear elements which are in the waste of present reactors. He has after that been a pioneer into using parabolic mirrors to focus solar energy a field that is now becoming industrial and known as CSP (Concentrated Solar Power). His mission at IASS includes exploring and assessing several projects in the field of sustainable energy. He will report at our conference on a promising way to Gigawatt quantities of Electric Power over long distances by a using Mg B2, a novel supraconducting material. On August 30th, 2013, Carlo Rubbia was appointed Senator for life by the President of the Italian Republic, Giorgio Napolitano.



Albert SASSON, M.Sc., D.Sc. (University of Paris), is a founding member of the Hassan II Academy of Science and Technology. He has had a distinguished scientific career as a Professor and Dean of the Faculty of Sciences of Rabat, Morocco; and thereafter at the United Nations Educational, Scientific and Cultural Organization (UNESCO, Paris). He was Assistant Director-General of UNESCO and Special Adviser to UNESCO Director-General from 1993 to 1999. He has been Senior Visiting Professor at the United Nations University Institute of Advanced Studies (Yokohama, Japan) and is a senior consultant to United Nations specialized agencies, several governments, national and regional institutions, as well as to the European Commission. He is President of the Association BioEuroLatina that aims to promote cooperation between Europe and Latin America in biotechnology. Albert Sasson has been appointed by the King of Morocco as member of the Kingdom's Human Rights Consultative Council (CCDH), the governing board of the Royal Institute of Strategic Studies (IRES), and the Economic and Social Council. His research and work have culminated in over 200 publications, including many books and reviews on biotechnology in developing countries over the last 38 years.



Jean-Maxime SAUGRAIN is the Nexans Corporate Vice-President Technical. He was previously the Nexans Corporate Technical Manager for Energy Infrastructure from 2007 to 2010 and the Nexans Superconductor Activity Manager from 2000 to 2010. Until 2000, he held different positions at Alcatel Cable in the field of optical fibers, both in France and in the USA. He has an engineering degree in physics and chemistry from the Ecole Supérieure de Physique et Chimie Industrielles of Paris and a post-graduate degree in materials sciences.



Ronan STEPHAN Alstom Group Chief Innovation Officer. Graduated Engineer from ENSI engineering school and holds a PhD in physics from University of Caen (France). Ronan STEPHAN started his career in 1984 with Thomson-CSF group up to 1997, then he was executive director of Brest's Science Park from 1997 to 2002. In 2003 he was appointed Director for industrial affairs and technology transfer with the French National Centre for Scientific Research (CNRS) and member of the executive board, and executive director of France Innovation Scientifique et Transfert, a subsidiary of CNRS and OSEO. From 2005 to 2009, he was President and CEO of Compiègne University of Technology, and joined the French Ministry for higher education and research as General Director for research and innovation in 2009. On March 2012, he was appointed Alstom Group Chief Innovation Officer, reporting to the Chairman and Chief Executive Officer.

Ronan STEPHAN, Directeur de l'Innovation du Groupe Alstom, depuis 2012. Ronan Stephan est Ingénieur et Docteur ès-Sciences. Il a débuté sa carrière chez Thomson-CSF en 1984 dans les activités sous-marines et il a quitté le Groupe en 1997 pour prendre la direction du Technopole de Brest jusqu'en fin 2002. Entre 2003 et 2005, il a dirigé les relations industrielles et le transfert de technologie du CNRS et a occupé les fonctions de Directeur Général de France Innovation Scientifique et Transfert (filiale du CNRS et d'OSEO). En 2005, il a été élu Président de l'Université de Technologie de Compiègne où il est resté jusqu'à sa nomination, en 2009, comme Directeur Général de Recherche et de l'Innovation au Ministère de l'Enseignement Supérieur et de la Recherche.



Johannes STUHLBERGER, Vice President, Head of Global Innovation Network Power & Flight Propulsion, Energy & Control, Chief Technical Office – Airbus Group. In this role, Mr. Stuhlberger is responsible for key project reviews within the areas of propulsion, energy, flight physics and test. In addition, the responsibility includes coordination and planning, implementing and monitoring the Airbus group R&T program, identification and enabling of synergy implementation. Mr. Stuhlberger serves as internal and external focal point for technical issues within propulsion, energy, flight physics, aeromechanics, aero acoustics and environmental effective technologies. Mr. Stuhlberger was formerly a vice president of EADS and Astrium, responsible for in-space propulsion systems and rocket engine testing. He served in various capacities of Astrium and Dasa as vice president, director and system engineer. Education: Dipl. - Ing. Aviation and Space Technology, Technical University Munich 1988, Cand. - Ing. Mechanical Engineering, Technical University Munich 1984.



Shimon TAL holds B.Sc and M.Sc in Soil & Water Sciences from the Technion – Israel Institute of Technology. He has over 37 years of experience in water supply and integrated water resources management. Shimon Tal own a private consultancy and he teaches sustainability in water management in the Interdisciplinary College in Herzeliya. He is involved in the dissemination of Israeli Water and Agricultural Technologies around the world. Shimon Tal served as the Water Commissioner of Israel for 6 years. Before that he was the VP for Engineering & Technology in Mekorot.



Abdelrahman TAMIMI worked since graduation in the field of water resources in the Occupied Territories. During the last 25 years the activities were focused more on water resources conflict and planning on the regional and national levels. He was also a member in the Palestinian counterparts to the EC and the World Bank before the establishment of Palestinian authority. He shared an initiation of the priorities and planning of the strategic projects. He also worked as a consultant for institutions working in developing water and environmental projects in the Occupied Territories (UNDP, GTZ, EU, World Bank etc.). Also he has more emphasis in water governance, water policy, water institutions, social conflicts and water and environmental conflicts in the Middle East. Additional to that he worked as coordinator for many international research projects. Such as projects of water policy, water resources planning. Recently appointed as a member of National water council and the national reform committee, and the national committee for social agenda and poverty alleviation; also he was the resource person for climate change adaptation national strategy and a member of water sector strategy. He is co-author of the report prepared for EU: Mediterranean challenges 2030: he coordinated several multinational projects related to water policy, food security and climate change. Working as part time lecturer in Alquds University-Sustainable Development Institute –Post Graduate Program and director of Palestinian hydrology group. Additionally he has several publications related institutional building, empowerment and stakeholders dialogue – trans-boundary water conflict. He is the author of the book “Water Privatization and Regional Political Agenda”. Recently he was elected as chairman of water group in UN-ESCWA.



Muriel TOUATY est Directrice générale de l'Association Technion France depuis 2002. Elle a vécu à Tel Aviv, en Israël, pendant 19 ans (1982-2001). Elle est diplômée de l'Université de Tel Aviv avec un diplôme de maîtrise en science politique et de droit international. Muriel Touaty, à ses débuts a travaillé dans une start-up israélienne à forte croissance centrée dans les domaines de la communication améliorée et des relations publiques entre la France et Israël. Elle a été également Directrice Marketing et des relations publiques pour l'Europe de «Business Layers», une start-up qui a développé le e-provisioning logiciel. C'est cette mission qui l'a ramenée vers la France. Elle dirige aujourd'hui l'Association Technion France, représentation française de l'Université du Technion, l'Institut Technologique d'Israël, à Haïfa. Sa mission est de faciliter et d'établir des coopérations bilatérales industrielles, universitaires et scientifiques avec le Technion et la France, de promouvoir l'innovation, de recueillir des fonds pour les étudiants du Technion. Membre de la commission scientifique de la FFI, elle a été, en 2009, promue Chevalier de L'Ordre National du Mérite par Mme Valérie Pécresse, Ministre de l'enseignement supérieur et de la recherche



Rosalia VARGAS is the President of Ciencia Viva - National Agency for Scientific and Technological Culture, Portugal, and Director of the Lisbon Science Center: Pavilion of Knowledge. She has been leading the creation of a network of science centers in Portugal, since 1996, currently with 20 members. She is also President of Ecsite (European Network of Museums and Science Centers). Her academic and professional development covers Education, Media Studies, Political Governance, and Scientific and Technological Culture: Benchmarking Study on Scientific Culture for the European Commission (2002); Board Member for ECSITE - European Network of Science Centres and Museums (2001-2007); member of the International Programme Committee of 5th Science Centre World Congress (2004-2008); member of the National Council of Education 2006-2012); elected City Councilor for Education, Youth and Culture at Lisbon City Hall (2007-2009); member of Editorial Board Harvard Medical School Portugal (2010-2012); National Delegate for Science in Society at the

7th Framework Programme of Research and Development, European Commission (2007–2012); member of Advisory board of The Danish National Center for Education in Nature, Technology and Health; member of Advisory Board of two High Schools in Lisbon; member of Advisory Board for Cooperation between Portuguese Republic and Angola Republic.



Bruno WEYMULLER has been Director for Strategy and Risk Assessment at Total (2000-2008) and a member of the Executive Committee. Bruno Weymuller has held various management posts within the Elf Aquitaine group, and has been Chief Financial Officer from 1994 to 2000. He has begun his career at the Ministry for Industry from 1972 to 1978, after which he joined the Cabinet of the Prime Minister Raymond Barre from 1978 to 1981. Bruno Weymuller is a former student of the Ecole Polytechnique, he is also a graduate of the Ecole des Mines in Paris, and holds a Master of Science from the Massachusetts Institute of Technology.



Gisèle M. YITAMBEN, economist by training, is an expert on entrepreneurship development, ICT and gender equality who founded and is President of the social enterprise, ASAFE. An ardent defender of the rights of underprivileged persons, with actions always targeted to improving their welfare through searching for access to productive resources and technical services. She is a member of the Reference Group of experts that advises the Director General of UNESCO on issues related to education for sustainable Development and researcher-member of the research network GRACE. Her expertise here earned her two books on women and ICT. A Schwab foundation fellow, Gisele has won several global prizes. She is the President of New Faces New Voices Cameroon, an organization that work in changing policies and lives through investing in African women.

Lionel ZINSOU, citoyen français et béninois, est Président de PAI, société française de Capital-Investissement, depuis juillet 2008. Auparavant, il avait été, de 1997 à 2008, Associé-Gérant de la banque d'affaires Rothschild et Cie. Lionel Zinsou avait commencé sa carrière dans la fonction publique en tant qu'assistant puis maître de conférences en économie (Université de Paris XIII et Ecole Normale Supérieure). Il a été membre du Cabinet du ministre de l'Industrie et du Premier ministre. En 1986, il a rejoint Danone dans le secteur privé comme contrôleur de gestion, directeur du développement puis directeur général. Lionel Zinsou est ancien élève de l'Ecole Normale Supérieure, de l'Institut d'Etudes Politiques et de la London School of Economics. Il est agrégé de sciences économiques et sociales.



Lionel ZINSOU is CEO of the French Equity firm PAI. Prior to PAI, he has been since 1997 General Partner of Rothschild (1997-2008), the investment bank. Lionel Zinsou started his professional career as an associate Professor of economics at Paris University (Paris XIII and Ecole Normale Supérieure) and a member of the Department of Industry Minister's Office, and the Prime Minister's Office. In 1986 and until 1997 he had joined Danone where he held various positions as Financial Controller, Corporate Development Director and member of the Executive Committee. Lionel Zinsou graduated from Ecole Normale Superieure, Sciences Po and La Sorbonne in history and economics. He is a citizen of France and Benin.