

SCIENCE & POLICY SOCIETY

22-23 MAY 2018

PARIS

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Université Sorbonne
Paris Cité



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SciencesPo



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FOSTERING INNOVATION:
WHAT ROLE FOR HIGHER
EDUCATION AND RESEARCH?



A French-Singaporean platform for innovative research and higher education

How can scientific research and public policy influence one another and what are the implications for our societies? The “Science, Policy & Society” conference is a joint venture launched by the National University of Singapore and the Université Sorbonne Paris Cité which brings together a wide range of stakeholders from different sectors in academia, government, public and private institutions and the civil society to tackle key issues in today’s world and to explore innovative solutions to tomorrow’s challenges.

The first “Science, Policy & Society” conference was organised in Singapore on 18-19 May 2017 under the patronage of H.E. Marc Abensour Ambassador of France to Singapore. It was the occasion to celebrate the USPC-NUS partnership and to showcase the joint initiatives in research and teaching founded by the two institutions. The second conference will be the opportunity to draw on the strengths of each institution and to create new partnerships.

As part of the official events of the “France-Singapore Year of Innovation 2018” this second conference will be focused on innovation: start-ups and emerging technologies, social innovation, the regulation of space, global health, aging and biotechnologies, education, creativity and AI.



NUS University Hall

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TUESDAY 22 MAY 2018

MORNING

SCIENCES PO
Amphithéâtre Jacques Chapsal
27 rue Saint Guillaume - 75007 Paris

8:30

WELCOME COFFEE AND REGISTRATION

9:00

Welcome message

Dr Vanessa Scherrer, Vice President, International Affairs, Sciences Po

OPENING ADDRESS

H.E. Mr. Zainal Arif Mantaha, Singapore Ambassador to France

Pauline Carmona, Deputy Director, Asia & Oceania, Ministry of Europe and Foreign Affairs, France

Prof François Houllier, President, Université Sorbonne Paris Cité

Prof Anne Pakir, Associate Vice President, University and Global Relations, NUS

9:30

KEYNOTE SPEAKER

Some lessons from forty years of studying science relations to politics

Prof Bruno Latour, Medialab, Sciences Po

KEYNOTE SPEAKER

Gene therapy for inherited disease of the hematopoietic system: advances and challenges

Prof Marina Cavazzana, Université Paris Descartes / Inserm

10:45

COFFEE BREAK

11:00

SESSION 1 - START-UPS AND EMERGING TECHNOLOGIES

Innovation & Enterprise: What role for Higher Education & Research ?

Introduction by

Frédéric Mion, President, Sciences Po

KEYNOTE SPEAKER

Singapore's Research, Innovation and Enterprise (RIE) journey

Prof Low Teck Seng, CEO, National Research Foundation, Singapore

KEYNOTE SPEAKER

NUS Overseas College (NOC) and its impact on the Singaporean ecosystem

Dr Lily Chan, CEO, NUS Enterprise

KEYNOTE SPEAKER

Reflections on Innovation Ecosystems

Prof Alberto Sangiovanni-Vincentelli, University of California at Berkeley & CREATE, Singapore

Panel Discussion

Innovation policies from a French-Singaporean perspective

Prof Yann Algan, Dean, Sciences Po School of Public Affairs

Dr Lily Chan, CEO, NUS Enterprise

Mr Florent Genoux, Bpifrance

Prof Alberto Sangiovanni-Vincentelli, University of California Berkeley & CREATE Singapore

Ms Sim SzeKi, Head of Brand, SGInnovate

Moderated by Prof Georges Haour (Technology and Innovation Management, IMD Switzerland)

13:00

NETWORKING LUNCH



TUESDAY 22 MAY 2018

AFTERNOON

SCIENCES PO
Amphithéâtre Jacques Chapsal
27 rue Saint Guillaume - 75007 Paris

14:15

SESSION 2 - SOCIAL INNOVATION

Innovation is not only Tech: the importance of social sciences, arts & humanities and the impact of innovation on society

Chaired by

Prof Rigas Arvanitis, Director, Institute for Research and Innovation in Society (IFRIS) and CEPED, Université Paris Descartes

Science, Technology, and Society (STS) in the Asian Century

Prof Gregory Clancey, Head, Science, Technology, and Society Cluster, Asia Research Institute, NUS

Permanent impermanence: living with innovation in Singapore

Dr Gerard Sasges, Department of Southeast Asian Studies, NUS

Ng Shiwen, founder, Photorikiki

Redefining Geopolitics: Environmental, Social & Governance lessons from the Arctic and Antarctica

Mikaa Mered, Free Institute of International Relations Studies (ILERI)

Diplomacy as Theatre: Innovating historical methodology

Prof Naoko Shimazu, Yale-NUS College

Rebooting Innovation in Global Media Studies: Information disorders, MIL and Digital citizenship

Prof Divina Frau-Meigs, Université Sorbonne Nouvelle

Discussion with

Jean-Marc Guesne, Director of Ashoka France

16:10

COFFEE BREAK

16:30

SESSION 3 - INNOVATION AND AEROSPACE

Now that we are in Space, how do we live there? Sustainability, Market efficiency, and Regulations

Lynette Tan, Executive Director, Singapore Space & Technology Association, Singapore

Michel Faup, Manager, Innovation and prospective, CNES

Prof Isabelle Sourbes-Verger, Senior Researcher, Centre Alexandre Koyré, CNRS.

Prof Themis Palpanas, Université Paris Descartes, Director of the Data Intensive and Knowledge Oriented Systems (diNO) group.

Dr Binxin Zhang, Assistant Professor, Xiamen University and Visiting Professor, Sciences Po.

Moderated by **Julien Cantegreil**, Chairman of the Board, AsterIdea

18:00

COCKTAIL RECEPTION - FOR INVITED GUESTS ONLY





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WEDNESDAY 23 MAY 2018

MORNING

UNIVERSITÉ PARIS DESCARTES
Le Grand Amphithéâtre
12 rue de l'école de médecine - 75006 Paris

9:00

WELCOME COFFEE AND REGISTRATION

9:15

OPENING ADDRESS

Prof Frédéric Dardel, President, Université Paris Descartes
Prof Geoffrey Sockett, Vice President for International Affairs, Université Paris Descartes

9:30

SESSION 4 - HEALTH, AGING AND BIOTECHNOLOGIES **Innovations to face the challenges of global health**

Chaired by
Dr Alessia Lefebure, Dean of Academic Affairs, EHESP

Are we all the same? Studying local biology for better health policies
Prof Chong Yap Seng, Yong Loo Lin School of Medicine, NUS

Academic-Government Partnership in starting Singapore's War on Diabetes
Prof Teo Yik Ying, Dean, Saw Swee Hock School of Public Health, NUS

Advances in preventing sudden cardiac death
Prof Xavier Jouven, Hôpital européen Georges-Pompidou APHP, Université Paris Descartes / Inserm

Medical education for sustainable healthcare
Prof Lau Tang Ching, Yong Loo Lin School of Medicine, NUS

Moving forward to internationalise medical education and research
Prof Gérard Friedlander, Dean, Paris Descartes Medical School

11:00

COFFEE BREAK

11:15

Next Generation Technologies for Cancer – From liquid biopsy to precision medicine
Prof Lim Chwee Teck, Director, BIGHEART, NUS

Democratizing cell therapy with extracellular vesicles
Prof Florence Gazeau, Université Paris Diderot

Panel Discussion
Prof Marie Véronique Clément, Yong Loo Lin School of Medicine, NUS
Danuta Pieter, Executive Director - Fondation Hopitaux de Paris-Hopitaux de France
Prof Benoit Vallet, Senior Auditor at the French Supreme Audit Institution (Cour des Comptes)

12:30

NETWORKING LUNCH



WEDNESDAY 23 MAY 2018

AFTERNOON

UNIVERSITÉ PARIS DESCARTES
Le Grand Amphithéâtre
12 rue de l'école de médecine - 75006 Paris

14:00

SESSION 5 - SMART LIVES AND ARTIFICIAL INTELLIGENCE

Innovation in a Technology Enhanced Society: What about human centrality?

Chaired by

Didier Pourquery, The Conversation

Technology and medical care: what about human beings?

Dr Cécile Monteil, Medical Director, iLumens

Technology Enhanced Education: Good thing or Flash in the Pan?

Prof Erle Lim, Yong Loo Lin School of Medicine, NUS.

Panel Discussion

Prof Françoise Soulié Fogelman, Hub France IA

Gregory Renard, Chief AI Officer, X-Brain

Prof Francois Taddei, Director, Centre des Recherches Interdisciplinaires, CRI

15:10

COFFEE BREAK & POSTER SESSION

Technology Enhanced Education Project Showcase (Team DS4TOX)

Poster 1: Curating joint France-Singapore digital seeds using the Lightboard for enhanced student engagement

Prof Xavier Coumoul, Université Paris Descartes

Mr Fung Fun Man, ALSET, National University of Singapore

Prof Etienne Blanc, Université Paris Descartes

Poster 2: Applying a Virtual Reality Platform for an Overseas Environmental Chemistry Field Trip

Prof Xavier Coumoul, Université Paris Descartes

Mr Fung Fun Man, ALSET, National University of Singapore

Prof Etienne Blanc, Université Paris Descartes

Prof Rainer Dumke, Centre for Quantum Technologies, NUS

Dr Thierry Koscielniak, CNAM

15:30

SESSION 6 - EDUCATION AND LIFELONG LEARNING

Creating a culture of Innovation through Education and Research

Chaired by

Fung Fun Man, Assistant Director, ALSET, NUS

Homo creativus: Creativity in the 21st century

Prof Todd Lubart, Université Paris Descartes

The seven myths of educational innovation

Prof Pierre Dillenbourg, EPFL, Swiss Federal Institute of Technology, Lausanne and founder of EdTech Collider

Helping our Learners Learn Better using Data

Prof Robert Kamei, Director, Institute for Application of Learning Science & Educational Technology, NUS and Associate Provost (Education)

Crossing disciplinary boundaries: lesson learned

Prof Jonathan Weitzman, Université Paris Diderot

Panel Discussion

Carine Sit, Schoolab

Gabrielle Leroux, Caisse des Dépôts

17:15

CLOSING REMARKS

Prof Antoine Cazé, Vice President for International Affairs, Université Paris Diderot

Prof Anne Pakir, Associate Vice President, University and Global Relations, NUS



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MORNING SESSION
PROGRAMME

SCIENCES PO - Amphithéâtre Jacques Chapsal - 27 rue Saint-Guillaume - Paris 7^e

MAY 2018

OPENING ADDRESS

22 MAY - 9:00



H.E. Mr Zainal Arif Mantaha
Ambassador of the Republic of Singapore to France

After a brief career in private legal practice, Mr Mantaha joined the Singapore Foreign Service in May 1991. At the Ministry of Foreign Affairs of Singapore, Mr Mantaha has covered various portfolios, including as Director of the Australia, New Zealand & the Pacific Directorate from April 2005 to May 2006 and Director-General of the Europe Directorate from January 2011 to July 2012 and from November 2014 to June 2015.

His overseas assignments included postings in Bonn (December 1993 to March 1997), New York (March 2000 to August 2001) and London (June 2006 to September 2010).

Mr Mantaha has also been seconded by the Singapore Ministry of Foreign Affairs to the Asia-Europe Foundation as Director for People-to-People Exchange from September 2001 to October 2004, and to the Singapore Civil Service College as Diplomat-in-Residence from January to November 2013.

Mr Mantaha has a law degree from the National University of Singapore. In 2014, he attended the Cycle international de perfectionnement (International Advanced Training Course) at the French graduate school for the civil service, École nationale d'administration (ENA), and obtained the International Diploma in Public Administration (Honours).

Mr Mantaha is married to Ms Jennifer Cheng.



Ms. Pauline Carmona

Deputy Director, Asia and Oceania,
Ministry of European and Foreign Affairs, France

Pauline Carmona is Deputy Director for Asia and Oceania Pacific at the French Ministry of European and Foreign Affairs since september 2017. She has previously served as Deputy Director of Cabinet, in charge of French nationals abroad, to the Office of the Secretary of State for Development and Francophonie, Jean-Marie Le Guen.

She also served as General Consul of France in San Francisco, United States, between 2014 and 2016.

Ms. Carmona, a graduate from Sciences Po and the Ecole nationale d'administration, the civil service school in France (class of 1997), started her career in 1997 at the Ministry of Foreign Affairs in France. In 2003, she became Deputy General Consul at the Embassy of France in Hong Kong and Second Counsellor at the Embassy of France in Tokyo in 2006.

From 2010 to 2014, Pauline Carmona worked at the Directorate general for Global Affairs, Culture, Education and International development at the French Ministry of Foreign Affairs. In 2016, she was secretary general for the "Partenariat pour un gouvernement ouvert" (PGO) initiative, a summit organised by France that gathered over 4 000 participants from 140 different countries in Paris to advance on the questions of transparency, co-construction of public policy and citizens' participation.



Prof François Houllier

President, Université Sorbonne Paris Cité

François Houllier was elected President of Sorbonne Paris Cité in March 2017. A graduate from the Ecole Polytechnique (X78) Prof Houllier also graduated in rural Engineering, Waters and Forests and he completed a PhD at the Université de Lyon (1986). He spent 15 years working for INRA (French National Institute for Agricultural Research) where he held different positions until he became President and CEO in 2012. His portfolio included being Deputy CEO in charge of the organisation, resources and scientific assessment (2010-2012) INRA, Scientific Director of Plants and Plant Products (2005-2009); Head of the Forest, Grassland and Freshwater Ecology Division (2004); Head of the Forest and Natural Environment Division (2001-2004). Prof Houllier was previously Director of the CIRAD-CNRS-INRA-IRD-Montpellier II Research Unit for Botany and Computational Plant Architecture (2000-2002); Director of the Joint CIRAD-INRA Research Unit for Plant Modeling (1998-1999). He was also Director of the French Institute of Pondicherry, India between 1994 and 1997.

His scientific background is in forest biometrics, ecological and plant modeling. Over time he has also built up a strong expertise in research and innovation policy, management and evaluation.

François Houllier is the author of more than 150 scientific publications and communications cited more than 2,000 times, including 52 papers in international peer-reviewed journals. In the past two years he authored 3 official reports to the French Government on issues related to science and innovation: "Agriculture Innovation 2025" (2015); "Participatory Sciences" (2016) to foster citizen sciences in France; "Research and Innovation for the Forest-based Sector in 2025" (2016) to develop an inter-ministerial roadmap for stimulating research and innovation in forestry and in the wood industry. He has been chairman of several boards - AllEnvi, Genoplante, Ecofor and European Forest Institute among others.



Prof Anne Pakir

Associate Vice President, University and Global Relations, National University of Singapore

Anne Pakir, from the Department of English Language and Literature, National University of Singapore (NUS), is the Associate Vice President (University & Global Relations) at NUS. She was Director of the International Relations Office (2008-2017).

She studied at the University of Hawaii, Manoa (PhD in Linguistics) on the NUS Overseas Graduate Scholarship. A Fulbright scholar at U.C. Berkeley (MA in English) and later at Cornell (post-doc), Anne Pakir won a Japan Society for the Promotion of Science (JSPS) award to Tokyo and was an ASEAN University Network (AUN) Distinguished Visiting Professor in Manila. She received the Chevalier dans l'Ordre des Palmes academiques in 2010 from France.

She serves on several editorial boards in the fields of Applied Linguistics, Language Planning, Language Policy, World Englishes and Asian Englishes. Her most recent publication is the co-edited book, World Englishes: Rethinking Paradigms (Routledge, 2018) with Low Ee Ling.

She was President of the Singapore Association for Applied Linguistics (SAAL, 1997-2004) and served as Chair of the AILA 2002 World Congress of Applied Linguistics in Singapore. She was also President of the International Association for World Englishes (IAWE, 1998-2000), a member of the TOEFL Board (2004-2009) and President of the Fulbright Association (Singapore) (FAS, 2008-2011). She received the Public Administration Medal (Bronze) awarded by the President of the Republic of Singapore in 2014. She was conferred The Inaugural SAAL Mentoring Medal of Honour in 2015 and an honorary lifelong member of the International Association for Applied Linguistics (AILA) in Jul 2017. As Vice-President of the Asia-Pacific Association for International Education (APAIE) she is leading the co-hosting of the APAIE 2018 Conference and Exhibition in Singapore.



Dr Vanessa Scherrer

Vice President, International Affairs, Sciences Po

Dr Scherrer has been the founding Executive Director and Vice Dean of the Paris School of International Affairs of Sciences Po, from 2010 to 2017. Under her leadership, PSIA grew to become this world-class school of international affairs with more than 400 distinguished faculty and a community of 1500 students, 70% of them international students coming from more than 100 countries in the world.

Before joining Sciences Po, Dr Scherrer spent a decade at Columbia University, where she was the Director of the Alliance Program and a visiting professor at the Columbia School of International and Public Affairs (SIPA). The Alliance Program is a partnership between four world-leading universities across the Atlantic (Columbia University, the Ecole Polytechnique, Sciences Po and the Université Paris I Panthéon Sorbonne). The Alliance Program has remained a unique academic endeavor in the world of international education benefiting more than 300 students and 80 faculty members every year.

Vanessa Scherrer is a member of the faculty of Sciences Po. She holds a Ph.D. in Political Science from Sciences Po. Dr. Scherrer has taught Research Design and Qualitative Methods, Public Opinion and European Politics, and American Government. She has also launched and taught an experimental transatlantic course on Global Leadership, in collaboration with the Dean of the Nunn School of International Affairs, Georgia Tech University. A specialist of Political Sociology, her research interests have included political behavior, political socialization processes and experimental methodology. Vanessa Scherrer has been the recipient of several academic scholarships, including the first doctoral scholarship of excellence jointly offered by Sciences Po and Columbia University in 2001. Vanessa Scherrer served on the board and founding committee of ExpoFrance 2025, she has been part of the flagship Young Leaders program of the French American Foundation since 2013 and she has also served on the editorial committee of the Echappée Volée, TEDx Paris.



NUS Stephen Riady Centre

KEYNOTE SPEAKER

Some lessons from forty years of studying science relations to politics



Prof Bruno Latour
Medialab, Sciences Po

Born in 1947 in Beaune, Burgundy, from a wine grower family, was trained first as a philosopher and then an anthropologist. From 1982 to 2006, he has been professor at the Centre de sociologie de l'Innovation at the Ecole nationale supérieure des mines in Paris and from 2006 to 2017 at Sciences Po Paris where, from 2007 to 2013, he has been vice president for research.

After field studies in Africa and California he specialized in the analysis of scientists and engineers at work. In addition to work in philosophy, history, sociology and anthropology of science, he has collaborated into many studies in science policy and research management. He has written *Laboratory Life* (Princeton University Press), *Science in Action*, and *The Pasteurization of France*. He also published a field study on an automatic subway system *Aramis* or the love of technology and an essay on symmetric anthropology *We have never been modern*. He has also gathered a series of essays, *Pandora's Hope: Essays in the Reality of Science Studies* to explore the consequences of the « science wars ». After having directed several thesis on various environmental crisis, he published a book on the political philosophy of the environment *Politics of Nature* (all of those books are with Harvard University Press and have been translated in many languages).

In a series of books, he has been exploring the consequences of science studies on different traditional topics of the social sciences: religion in *On the Modern Cult of the Factish Gods*, and

Rejoicing or the Torments of Religious Speech, and social theory in *Paris ville invisible*, a photographic essay on the technical & social aspects of the city of Paris. After a long field work on one of the French supreme Courts, he has published a monograph *The Making of Law -an Ethnography of the Conseil d'Etat*. A new presentation of the social theory which he has developed with his colleagues in Paris is available at Oxford University Press, under the title: *Reassembling the Social, an Introduction to Actor Network Theory*.

After having curated a major international exhibition in Karlsruhe at the ZKM center, *Iconoclasm beyond the image wars in science, religion and art*, he has curated another one also with Peter Weibel *Making Things Public The atmospheres of democracy* in October 2005. He has just curated *Reset Modernity!* (ZKM 2016). The three catalogs are with MIT Press.

While in Sciences Po, he has created the medialab to seize the chance offered to social theory by the spread of digital methods and has created, together with Valrie Pihet a new experimental program in art and politics (SPEAP).

Having been awarded and ERC grant to pursue an inquiry into modes of existence, he has been engaged from 2011 to 2014 in the AIME project, that is still going on.

KEYNOTE SPEAKER

Gene therapy for inherited disease of the hematopoietic system: advances and challenges



Prof Marina Cavazzana
Université Paris Descartes / Inserm

Marina Cavazzana is a paediatrician, Professor of Haematology since 2000, Director of the Department of Biotherapy at Hospital Necker, University Paris Descartes. She is the Director of the Inserm / Assistance Publique - Hôpitaux de Paris GHU Ouest Biotherapy Clinical Investigation Center and leads a research Laboratory at Imagine Institute. She studied medicine in Padua, Italy and received the degree of Doctor of Medicine in 1983, her certification in Paediatrics in 1987 and a PhD in Life Sciences in 1993 (University Paris VII).

Her main research and clinical interests are development of the immune system, genetic diseases of the haematopoietic system and cell and gene therapy. She has initiated several clinical trials based on the use of ex vivo gene modified cells to treat patients with inherited disorders, the preliminary clinical results of which are encouraging. This work was rewarded by the American Society of Hematology (Award on Clinical Research in Gene Therapy in 1999), by the French Academy of Sciences (Special Medical Award in 2000 and Jean-Pierre Lecocq Award on Gene Therapy in 2004). She was awarded the title of Officier de l'Ordre National de la Légion d'honneur in 2011, given the Irène Joliot Curie 2012 award «Scientific Women of the Year» (Science Academy and French Ministry of Education and Research) and awarded with the French National Academy of Medicine in 2016.

SESSION 1

START-UPS AND
EMERGING TECHNOLOGIES

Innovation & Enterprise:
What role for Higher Education
& Research?

22 MAY - 11:00

INTRODUCTION BY



Mr Frédéric Mion
President, Sciences Po

Frédéric Mion became President of Sciences Po and administrator of the Fondation Nationale des Sciences Politiques in April 2013.

Frédéric Mion graduated from Sciences Po in 1992 and completed his studies at the École Normale Supérieure and at the École nationale d'administration, the top civil service school in France (class of 1996). He is "maître des requêtes" (master of petitions) in the French Council of State.

Frédéric Mion taught public law at Sciences Po until 2003, and headed the university's Department of Public Administration from 1996 to 1999.

A member of the French Council of State, from 1996 to 2003, he occupied various roles within the French government; first as a member of the "Attali Commission" whose report "For a European Model of Higher Education" laid the foundations for a harmonized European higher education system, then as an advisor to the Minister of Education, Jack Lang.

He later served as the Deputy Head of the General Directorate in charge of the French civil service from 2001 to 2003.

He joined the law firm Allen & Overy in 2003 and became a partner in 2005. In 2007 he was appointed general counsel of Groupe Canal + (France's largest media group) a position he held until 2013.

Since taking up his current post a Sciences Po, Mion has led a number of major initiatives at Sciences Po, including the reform of the university's governance and statutes, renovation of the regional campuses, completion of the restructuring of graduate studies into Schools, continuation of the internationalization and scientific development strategy, and the real estate reorganisation and development of the regional campuses. This strategy, set out in "Sciences Po 2022" in May 2014, aims to further Sciences Po's development as a leading international university while preserving all that has underpinned its identity and success since it was founded in 1872: the exceptional social and geographic diversity of its student body, the combination of an advanced academic curriculum and practical courses delivered by thousands of professionals from all fields, the excellence of its research – particularly in the social sciences – and its strongly international perspective.

KEYNOTE SPEAKER

Singapore's Research, Innovation and Entreprise (RIE) journey



Prof Low Teck Seng
CEO, National Research Foundation, Singapore

Prof Low graduated with First Class Honours in Electrical & Electronic Engineering in 1978 from Southampton University and subsequently received his PhD from the same university in 1982. He joined National University of Singapore (NUS) in 1983 as an academic staff of the Department of Electrical Engineering.

Prof Low set-up the Magnetics Technology Centre (MTC) at NUS in 1992. It was renamed the Data Storage Institute (DSI) with an expanded charter in 1995. In 1998 Prof Low returned to the Faculty of Engineering at the National University of Singapore as Dean. In 2001, Prof Low led a team to establish Singapore's fifth polytechnic and served as the founding Principal of Republic Polytechnic from 2002-2008.

Prof Low was awarded the National Science and Technology Medal in 2004, the highest honour bestowed on an individual who has made distinguished, sustained and exceptional contributions, and played a strategic role in the development of Singapore through the promotion and management of R&D. In 2007 he was awarded the Public Administration Medal (Gold) by the President of Singapore for his outstanding contributions to the development of technical education and the management of science and technology for the nation.

Prof Low was conferred the Honorary Doctor of Science by Southampton University in recognition for his contributions to Singapore and his profession internationally, in the IEEE, in 2009.

Prof Low is currently the CEO of the National Research Foundation, Singapore. He was appointed to this position in July 2012. Prior to his appointment at the NRF he was the Managing Director at the Agency for Science, Technology & Research (A*STAR).

Prof Low is presently a tenured professor at Nanyang Technological University as well as at the National University of Singapore. He is a Fellow of the Singapore Academy of Engineers; Fellow of the IEEE and International Fellow of the Royal Academy of Engineers, UK.

Prof Low was conferred the Order of the Legion of Honour with the grade of Knight (Chevalier) by the French Government in Paris on 17 Mar 2016.

KEYNOTE SPEAKER

Reflections on Innovation ecosystems



Prof Alberto Sangiovanni-Vincentelli
University of California at Berkeley
& CREATE, Singapore

Alberto Sangiovanni Vincentelli has served on the faculty of the University of California, Berkeley since 1976 and currently holds is the Edgar L. and Harold H. Buttner Chair of Electrical Engineering and Computer Sciences at the University of California at Berkeley. As both an academic and entrepreneur, Alberto Sangiovanni-Vincentelli propelled electronic design automation (EDA) into an indispensable engineering discipline with his groundbreaking scientific contributions, collaborations with industry and by co-founding the two largest EDA companies (Cadence and Synopsys) in the world. Dr. Sangiovanni-Vincentelli continues to be a driving force in the EDA, which has enabled integrated circuit design to progress from a few hundred transistors in the 1970s to today's integrated circuits containing billions of transistors.

A world-renowned authority on all aspects of integrated circuit and system design such as numerical algorithms, circuit simulation, verification, layout, logic synthesis, system design methodologies and distributed system analysis, Dr. Sangiovanni-Vincentelli was instrumental in bringing EDA technology to market and ensuring its commercial success. In 1983, he co-founded SDA Systems—one of

two companies that merged to form Cadence Design Systems. In 1986, he went on to help found Synopsys. During the 1990s, Sangiovanni-Vincentelli developed the foundations of "platform-based design," a comprehensive design and analysis methodology for electronic systems. In 2001, he received the Kaufman Award for his pioneering contributions to EDA from the Electronic Design Automation Consortium. In 2011, he was awarded the IEEE/RSE Maxwell Medal "for groundbreaking contributions that have had an exceptional impact on the development of electronics and electrical engineering or related fields". He received an honorary Doctorate from Aalborg University (Denmark) and one from KTH (Sweden). He authored 17 books and over 950 papers.

Dr. Sangiovanni-Vincentelli presently serves on the Board of Directors of Cadence Design Systems Inc. An advisor to leading companies such as Intel, United Technologies, General Motors and Pirelli, he is a member of the National Academy of Engineering, an IEEE and ACM Fellow. He has published more than 900 papers and 17 books in the areas of EDA, design methodologies, control, hybrid systems and system-level design.



KEYNOTE SPEAKER

NUS Overseas Colleges (NOC) and its impact on the Singaporean ecosystem



Dr Lily Chan
CEO, NUS Enterprise, Singapore

As CEO of NUS Enterprise, Lily is responsible for architecting a comprehensive innovation & entrepreneurship ecosystem for the NUS community. Successful initiatives include the global expansion of the NUS Overseas Colleges (NOC) programme and the BLOCK71 incubator network, which help to facilitate international exposure, growth and exchange opportunities for students and/or start-ups. Lily brings with her more than 25 years of industry experience, previously serving as Managing Director, Investments, of Bio*One Capital Pte Ltd, an investment arm of the Singapore Economic Development Board. She was also previously the General Manager (Singapore) and Director of Product Development (USA) for Genelabs Diagnostics Pte Ltd Singapore.

Founded in 2002, the innovative NUS Overseas Colleges (NOC) programme has been labelled the “the single most important development to boost the start-up movement [in Singapore].” [1] Through a combination of start-up internships and entrepreneurial coursework, the programme has served as an important training ground for more than 2400 students, with alumni founding over 350 start-up companies and winning over 100 entrepreneurial awards to date. This presentation will detail the history of NOC, the reasons for its success, as well as its larger impact on changing a culture and helping to site Singapore as a global entrepreneurial node for innovative talent and companies.

ROUND TABLE

Innovation Policies
from a comparative perspective



Prof Yann Algan
Dean, School of Public Affairs, Sciences Po

Yann Algan is the Dean of the School of Public Affairs and Professor of Economics at Sciences Po. His research focuses on Digital Economy and Public Action 3.0. He also specializes on social capital and well-being in relation to individual outcomes and economic behavior, with particular attention to the role of education, employment and institutions. Yann Algan is a member of the OECD-hosted High-Level Expert Group on the Measurement of Economic Performance and Social Progress and the French Council of Economic Analysis. He is senior editor of the review *Economic Policy*.

His awards include the Best French Young Economist (2009), and his books on trust and French society have been awarded Best French Economics Book and French Essay (2009) and Best French Economics Book, Prix Lycéen (2013). In 2010 he was awarded an ERC Starting Grant for his project "Trust". In 2015, he received a second ERC grant, a consolidator one, for the project "Sowell" on Social Preferences, Well-Being, and Policy".



Dr Lily Chan
CEO, NUS Enterprise, Singapore

See bio p.35



Ms Sim SzeKi
Head of Brand, SGIInnovate

SzeKi is a seasoned marketing practitioner in the technology space, having assumed various senior positions in organisations such as Motorola Solutions and Nokia Siemens Networks.

In her current role as Head, Brand, SzeKi is responsible for building the SGIInnovate brand, as well as promoting Singapore as a place of thriving innovation. She also works with SGIInnovate's portfolio companies to help raise their visibility as they embark on launching their products and solutions.

Prior to SGIInnovate, SzeKi led Asia Marketing for Motorola Solutions, focused on providing mission critical communication solutions for government, public safety and enterprise customers. Before this role, SzeKi was the Head of Customer Marketing for Nokia Siemens Networks for their Global Services organisation.



Prof Alberto Sangiovanni-Vincentelli
UC Berkeley & CREATE, Singapore

See bio p.33

ROUND TABLE

Innovation Policies
from a comparative perspective



Florent Genoux
Bpifrance

Florent graduated from SKEMA Business School in 2003, with a focus on Innovating senior companies. He first worked for a high-tech start-up before joining France Telecom as a Project Officer to work and test new innovating services for mobile phones. Florent then worked as a European project officer, building and

coordinating projects under FP6 and H2020 in the ICT field. In 2012, he acted at Inria, a leading research institute on applied mathematics, as a Partnerships & Technology Transfer Officer. In 2015, he joined Bpifrance as an Innovation project officer, and délégué innovation in Paris in 2018.

M O D E R A T E D B Y



Prof Georges Haour
Technology and Innovation Management,
IMD Switzerland

Georges Haour is Professor of innovation management at the executive education institute IMD, in Switzerland. He is associated with the "business accelerator" Xnode, in Shanghai. For years, he worked with Scientific Generics (now Sagentia), an incubator in Cambridge, UK. He helped launch the British Telecom's incubator "Brightstar", in Ipswich, UK. He frequently works with startups, in the Geneva-Lausanne area, Cambridge, UK, as well as Paris and Shanghai. He acts as an adviser to companies, using his "innovation journey" approach, in order to foster innovation-led growth. He also advises on effective technology transfer & commercialisation. His work on China led him to join a European Union project, on the digital tsunami, on 5G/IoT, involving Japanese and European firms.

Georges, born and raised in Lyon, France, holds French and Swiss passports. He obtained a PhD in Chemistry & Materials science from the University of Toronto, Canada. Then, he worked with Marshall McLuhan. He was with Bell Labs, Murray Hill, N.J., then joined the innovation & tech. transfer firm Battelle, in Geneva, becoming manager of a 35 staff business unit. Companies funded the development of innovations carried out in his unit. He licensed several of his eight granted patents to firms, such as Hitachi, in order for them to launch new activities.

He has published numerous articles and five books. After "Resolving the Innovation Paradox" on his experience of effectively managing innovation, came "From Science to Business" (www.fromsciencetobusiness.ch) on technology and knowledge transfer. Both books are with Palgrave, London. His latest book is on innovation in China. Titled "Created in China - how China is becoming a global innovator", it has been published by Bloomsbury (London, 2016), and in Chinese by CITIC Publishing (Beijing, 2017).

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SESSION

SCIENCES PO - Amphithéâtre Jacques Chapsal - 27 rue Saint Guillaume - Paris 7^e



MAY 2018

SESSION 2

SOCIAL INNOVATION

Innovation is not only Tech:
The importance of social sciences,
arts & humanities and
the impact of innovation on society

22 MAY - 14:15

CUTTING-EDGE technology is key for innovation, yet it does not work alone when the objective is to create social impact. What are the roles of social sciences and humanities in innovation? This session will pay a special attention to the importance of the interactions between social sciences, humanities and other disciplines for a sustainable and beneficial outcome for the society.

CHAIRÉD BY



Prof Rigas Arvanitis

Director, Institute for Research and Innovation in Society (IFRIS) and CEPED, Université Paris Descartes

Rigas Arvanitis is a sociologist, economist and director of research at the Institut de Recherche pour le Développement (IRD). He is the Director of the Institute for Research and Innovation in Society (IFRIS).

SCIENCE, TECHNOLOGY, AND SOCIETY (STS) IN THE ASIAN CENTURY

Prof Gregory Clancey

Abstract

The accelerated changes occurring in many Asian societies are partly a function of their having institutionalized techno-scientific innovation. But informed critiques of the social dimensions of that innovation have not kept pace. This gap has serious implications for science and technology policy, which is more robust in Asia than any region of the world, yet is far less informed by social science and humanities perspectives. The multi-disciplinary project called "Science, Technology, and Society" (STS) has begun to make inroads across Asia, however, initially as an outsiders' critique of technocracy, but more recently as a cautious partner is probing possible futures. This paper will discuss the rise of STS as a forum for research, action, and critical self-reflection within Asian developmental states, using Singapore and Japan as its primary models, and presenting short case studies of recent STS research initiatives in the region, ranging from biomedicine, to nuclear accidents, to artificial intelligence. It will argue that the global project of STS has a critical role to play across the whole domain of Asian techno-scientific innovation, and has already begun to 'speciate' to consider projects and problems more pressing in Asia than 'the West'.



Prof Gregory Clancey
Asia Research Institute, NUS

Gregory Clancey is an Associate Professor in the Department of History, the Leader of the STS (Science, Technology, and Society) Cluster at the Asia Research Institute (ARI), and Master of Tembusu College at NUS. Assoc. Prof Clancey received his PhD in the Historical and Social Study of Science and Technology from MIT. He has been a Fulbright Graduate Scholar at the University of Tokyo, a Lars Hierta Scholar at the Royal Institute of Technology (KTH) in Stockholm, and a Visiting Professor at Nagasaki University. He has won three NUS teaching awards. Assoc Prof Clancey's research centers on the cultural history of science & technology, particularly in modern Japan and East Asia. His book *Earthquake Nation: The Cultural Politics of Japanese Seismicity* (Berkeley: U. of Califor-

nia Press, 2006) won the Sidney Edelstein Prize from the Society for the History of Technology in 2007; and was selected as one of the "11 Best Books about Science" for the UC Berkeley Summer Reading List in 2009. He is co-editor of *Major Problems in the History of American Technology* (Boston: Houghton-Mifflin, 1998), *Historical Perspectives on East Asian Science, Technology and Medicine* (Singapore: Singapore U. Press & World Scientific 2002), and *The City as Target* (NY: Routledge, 2011). Assoc Prof Clancey is the 2012 recipient of the Morrison Prize from MIT for "combining humanistic values with effectiveness in the world of practical affairs, and in particular, in science and technology".



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PERMANENT IMPERMANENCE: LIVING WITH INNOVATION IN SINGAPORE

Gerard Sasges
Ng Shiwen

Abstract

The origin of the word innovation is the Latin verb novare, or to make new. The adoption of new methods, ideas, products, or places is often assumed uncritically to be a positive change, and few nations in the world have embraced the theory and practice of making new with more enthusiasm than Singapore. Yet what does it mean to live in a place where almost nothing is allowed to grow old? Today we explore the experience of living in a land of constant innovation. By juxtaposing images of Singapore with the voices of the people who live and work there, we add human depth to the narratives of technology, progress, and development that have created a condition of permanent impermanence.



Dr Gerard Sasges
Department of Southeast Asian Studies, NUS



Ng Shiwen
Founder, Photorikiki

Gerard Sasges is an historian, educator, and chronicler of everyday life. He is an Assistant Professor at the National University of Singapore and was for many years the Director of the University of California's Vietnam Study Center. His work explores the relationship between technology and processes of social, political, economic, and environmental change in Southeast Asia.

Ng Shi Wen is a photographer, educator, and chronicler of everyday life. She is the founder of Photo Rikiki and has taught at the National University of Singapore and at Singapore's School of the Arts. Using words and light, she seeks to transcribe stories of people finding their way in constantly changing city.

REDEFINING GEOPOLITICS: ENVIRONMENTAL, SOCIAL AND GOVERNANCE LESSONS FROM THE ARCTIC AND ANTARCTICA

Mikaa Mered

Abstract

They used to be hard to access, populate, and exploit... Theaters of militaristic geopolitics and environmental geo-politics over the course of the 20th century, the Polar regions are now—in a similar way to that of the Outer Space— progressively being integrated into the global economy as a result of climate change and innovative technologies. That said, the Polar regions are not just yet another business-as-usual «resources extraction areas». Indeed, states, companies, techies and global investors alike all tend to endorse the idea that the economic rationalization of the Arctic and the Antarctic cannot be based on old-fashion business principles. In so doing, Polar tech innovators and stakeholders are not only constructing a new Polar social reality that is based on the partial dissolution of old spatial references thanks to better and more affordable Polar-capable technologies. They are also adopting new environmental, social and governance approaches that may serve as new base-models for the sustainable development of other parts of the world: a «Polarnomics» ESG model. And, maybe most importantly, they are contributing to changing what the term «innovation» means and entails in the minds of policymakers, investors and the general public outside the Polar regions: they showcase the idea that innovation is not only Tech!



Mikaa Mered

Free Institute of International Relations Studies (ILERI) & Executive Master student, Sciences Po

Mikaa Mered is Professor of Arctic and Antarctic Economics and Geopolitics, and Head of the MPI degree programme in French Overseas Territories' and Environmental International Cooperation, at the Free Institute of International Relations Studies (ILERI) in Paris, France. Mikaa is a member of the Scientific Committee for Antarctic Research's Humanities and Social Sciences Expert Group. He also contributes as external expert on the Arctic to the European Commission's Research Executive Agency.

Formerly an advisor on Polar affairs to the chairwoman of the Bureau of the French National Coastal and Ocean Council (CNML), and after 7 years as a consultant in the field of Polar affairs, his current lecturing and research activities focus on the impact of climate change on the governance and geotechnopolitics of the Arctic, Antarctic and French Overseas territories, as well as the impact of the emergence of such territories on the global energy, minerals, data and shipping markets.



Yale-NUS campus

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DIPLOMACY AS THEATRE: INNOVATING HISTORICAL METHODOLOGY

Prof Naoko Shimazu

Abstract

Conventional wisdom says diplomacy is about high politics, about statesmen, taking place between states. However, why can we not attempt to understand diplomacy as a type of political performance which takes place in the everyday? Recasting diplomacy as a performance of sorts, this presentation argues that using the theatre analogy, we can deconstruct a diplomatic event as a performance, with a stage, performers, audiences and the script. In this way, the framework of 'diplomacy as theatre' can help us understand how symbolic meanings can be produced in diplomacy. Arguably, the dramatization of diplomacy through performative acts lies at the core of diplomacy, insofar as diplomacy is, as much about public performance, as it is about behind-the-scenes negotiations.



Prof Naoko Shimazu
Yale-NUS College

Naoko Shimazu DPhil (Oxon), is Associate Dean of Faculty and Professor of Humanities (History) at Yale-NUS College, Singapore. Before coming to Singapore, she taught for twenty years at Birkbeck College, University of London. She is a global historian with a regional focus on Asia, with her current focus on the cultural history of diplomacy, including her monograph, *Diplomacy as Theatre: The Bandung Conference and the Making of the Third World*, an interdisciplinary research project on 'Reading Diplomatic Images in Postwar Southeast Asia', as well as co-editing of the *Oxford Handbook on the Cultural History of Diplomacy*. Her major publications include *Imagining Japan in Post-war East Asia* (co-editor, Routledge, 2013), *Japanese*

Society at War: Death, Memory and the Russo-Japanese War (Cambridge University Press, 2009), *Nationalisms in Japan* (editor, Routledge, 2006), *Japan, Race and Equality: Racial Equality Proposal of 1919* (Routledge, 1998). She is the 2018 Kathleen Fitzpatrick Fellow at the University of Sydney, Honorary Professor at the Department of History and Associate at the Asia Research Institute at NUS, Fellow of the Royal Historical Society, and formerly a Fernand Braudel Senior Fellow (European University Institute), Japan Foundation Fellow, and obtained research grants from the British Academy, Leverhulme Trust and the Arts and Humanities Research Council of UK.

REBOOTING INNOVATION IN GLOBAL MEDIA STUDIES: INFORMATION DISORDERS, MIL AND DIGITAL CITIZENSHIP

Prof Divina Frau-Meigs

Abstract

This presentation will discuss the renewed role of the media in digital culture, in the light of what information disorders reveal about their public utility and their contribution to democracy. It will rely on two recent studies conducted under the aegis of the UNESCO Chair « Savoir Devenir in durable digital development », one relating to Youth, radicalization and social media and the other to fake news and disinformation. In both cases, the solutions point to the development of new media and information literacies (MIL) for the 21st century and to the adoption of competences for digital citizenship education. The conclusion points to the creation of an international centre of excellence for MIL and Digital Citizenship, and for a SMILE coalition for the digital and creative humanities, complementing the STEM coalition for the digital sciences.



Prof Divina Frau-Meigs
Université Sorbonne Nouvelle

Divina Frau-Meigs is professor of media and ICT sociology at the Université Sorbonne Nouvelle, France. She holds degrees from the Sorbonne University, Stanford University and the Annenberg School for Communications (University of Pennsylvania). She is a specialist of Cultural Diversity, Internet Governance and Media and Information Literacy (MIL) as well as a researcher in the media uses and practices of young people. She holds the UNESCO chair "Savoir-devenir in sustainable digital development".

Author of more than 20 books and numerous journal articles and reports, she is a globally renowned researcher and one of the worlds experts on Media and Information Literacy as well as Information Disorders and Opportunities (harmful content, disinformation, play...). She has been the coordinator of the French National Agency Project TRANSLIT, on the convergence between media, information and digital literacies (www.translit.fr). She is also the coordinator of the Erasmus + "ECFOLI" project (KA2) that promotes strategies for conflict resolution via Media and Information Literacy (www.ecfoli.eu). She is responsible for the implementation of the European project ECO that aims at pro-

ducing MOOCs (Massive Open Online Courses), especially to train trainers in the fundamentals of digital humanities (www.ecolearning.eu). She was granted the "Global MIL Award" by UNESCO and Alliance of Civilisations for her MOOC DIY MIL. She recently completed a world review of the research literature on social media, youth and radicalisation for UNESCO and contributed her expertise in the High Level Group on Fake-news set up by the European Commission.

She has held elected responsibilities with IAM-CR (as vice-president (2004-2008), as head of the "media education research section" (2009-15) and with ECREA (among the founders and as a member of the advisory board, 2008-). She currently is the co-chair of the European Chapter of GAPMIL, the Global Alliance for Partnerships in Media and Information Literacy. She represents civil society interests (academia and research) in the Internet Governance Forum (IGF) and in other global arenas (ICANN, WSIS...). She is the president of Savoir*Devenir, an international association dedicated to XXIst century literacies and digital transition.

DISCUSSION



Jean-Marc Guesne
Director of Ashoka France

Jean-Marc started his career as a social entrepreneur in Asia for 7 years, creating 2 companies and more than 1000 jobs in Cambodia and in China. He has created the first organic certified value chain of Cambodia with the sugar palm tree and has created and led the «Highest French owned Company» of the World at 4000m altitude on the Tibetan High Plateau in China that re-valored the whole yak value chain (luxurious textiles, thermal insulation products with the yak hair and dairy products)

He next joined the Bel Group for 4 years as an intrapreneur where he created and developed an innovative social business that connects street vendors in emerging countries in Asia and Africa with major food processing brands while giving them access to tailor-made social services (social protection, micro-insurance, banking services, training...). This program called "Sharing Cities" created more than 6000 jobs and is a lever to the Group growth.

Jean-Marc joined Ashoka, the first international network of social innovators, in 2015 as Director of Ashoka France. Created 40 years ago, Ashoka identifies, selects, connects and supports in their scaling strategy the most innovative worldwide entrepreneurs that all have the potential to transform positively our societies and bring large scale solutions to the major social challenges that humans are facing.

Jean-Marc is a telecommunication engineer, graduated from HEC business school where he also teaches. He is also at the board of several Corporate Foundations and impact investment Funds.

SESSION 3

INNOVATION AND
AEROSPACE

Now that we are in Space,
how do we live there?
Sustainability, Market efficiency,
and Regulations

22 MAY - 16:30

ROUND TABLE

MODERATED BY



Julien Cantegreil
CEO, OurSpace Labs and Chairman of the
Board, AsterIdea.

Julien Cantegreil is Chairman of AsterIdea, a Paris based Space related not for profit dedicated to raise awareness about Outer Space scientific revolution, challenges and beauty.

ASTERIDEA is a newly created French public not for profit Foundation whose mission is to promote and develop our understanding of our new steps into Space, and urge each one of us to think and act responsibly and sustainably as we move forward. Paris based, we benefit from a world class French scientific community and focus on the highest scientific standards. With advice from a global Board of Directors, active in more than ten fields of research, we are looking to engage with citizen from all backgrounds, all countries and any age, with NGO, Academic Institutions and businesses leaders to find new ways to awaken ordinary citizens to the splendor of this new frontier, through education and outreach, on the school bench, via the media, the arts and the humanities.

For the year 2018-2019, the activities of AsterIdea evolve around fostering sustainable space regulations, teaching Space related matters (from philosophy to business and architecture), and creating a generation of « doers » and « makers » for the domaine of Space, notably by hosting a Space Hackaton and collaborating with various projects abroad. We are looking to becoming one of the many centers around the world to allow anyone to find a way to engage with Space related matters.

Entrepreneur, Educator and Space activist, Julien is the CEO of OurSpace Labs, a NewSpace startup. Before that, held Senior Legal position in a global listed company as the Deputy Group General Counsel of KERING, \$50B Market cap world leader in the Luxury business. Before that, spent a decade in teaching Law, Arbitration and Philosophy (Ecole Normale Supérieure, Sciences Po and Sorbonne), researching (Max Planck Institute, Collège de France) and writing, notably as Redactor in Chief during 7 years of the leading French Journal in Philosophy of Law: Archives de philosophie du droit (Dalloz) and by authoring many papers in leading Academic Journals. He put this into practice by doing advocacy work, notably as Director of programs for the French leading policy think tank EN TEMPS REEL and other pro bono work during two decades. Before that, Speechwriter for the French Minister of Economy and Finance. Started as Teaching Assistant at Harvard University. Amateur Pilote, amateur Diver, amateur Runner. Graduated in Economics from Ecole Normale Supérieure (B/L), Philosophy from Sorbonne (BA, MPhil, Agregation) and Law from Yale Law School (LLM) and Sorbonne (PhD in Law, summa cum Laude and Georges Scelle Prize). Young Leader, of the French American Foundation. Fulbright Fellow.



Prof Isabelle Sourbes-Verger

Senior Researcher, Centre Alexandre Koyré, CNRS

Isabelle Sourbès-Verger is Senior Researcher at the CNRS (National Center for Scientific Research) in Paris. She is one of the few French researchers specialised in the study of outer space activities and related national space policies. History and geography constitute her academic background. After she became a professor, she conducted research about the Geography of Outer Space, dealing with the different forms of occupation of Earth orbits and the corresponding national space policies of the Space Club members.

After working as a Junior Researcher at CNET (National Centre for Telecommunications Studies) during three years, she obtained a permanent position at CNRS in 1988. Since then, she belonged to different CNRS laboratories moving from Imageo (space cartography), to CREST (Centre for Research on Strategy and Technology, Ecole Polytechnique) and LCP (Laboratory on Political Communication as Deputy Director) before joining her current organisation, CAK (specialised in the history of sciences and technologies) as Deputy Director from 2009 to 2014. Through this multifaceted experience, she built up a global approach of the scientific, social science and political dimensions of the space conquest.

Her research focuses on the interface of national public policy and technological ambitions taking into account very different issues such as strategic matters and international security, the impact of public opinion and the role of media as support to space activities. Thus, Europe, Russia, Japan, China and India are the major space powers on which she developed extensive expertise. Using comparative analysis of different national space policies, her research provides an original view on the various models of acquisition and development of national space competences. She is a member of different international networks.



Prof Themis Palpanas

Université Paris Descartes, Director of the Data Intensive & Knowledge Oriented Systems (diNO) group

Themis Palpanas is Senior Member of the Institut Universitaire de France, a distinction that recognizes excellence across all academic disciplines, and professor of computer science at the Paris Descartes University, where he is director of diNo, the data management group. He received a BS degree from the National Technical University of Athens, and a MSc and PhD degrees from the University of Toronto. He has previously held positions at the University of Trento, where he founded and directed the database group, and at IBM T.J. Watson Research Center. He has also worked for UC Riverside, and has been a visiting scientist at Microsoft Research, IBM Almaden Research Center, NUS, and the Qatar Computing Research Institute.

His interests include problems related to online and offline data management and data analytics, focusing on high-rate streaming data and very large data collections, as well as sentiment analytics and semantic-web engineering. His research has been funded by the European Commission, CNRS, Jacques Hadamard Mathematical Foundation, Facebook, IBM, Safran, Hewlett-Packard Labs, Telecom Italia, and the Autonomous Province of Trento. He is the author of 9 US patents, 3 of which have been implemented in world-leading commercial data management products. He is the recipient of three Best Paper awards, and the IBM Shared University Research Award.

He is a founding member of the Event Processing Technical Society, and is serving as an Editor in Chief for the BDR Journal, an Associate Editor in the TKDE, and IDA journals, as well as on the Editorial Advisory Board of the IS journal, and the Editorial Board of the TLDKS Journal. He serves as a reviewer for the European Commission FP, the Natural Sciences and Engineering Research Council of Canada, the Academy of Finland, the Netherlands Organisation for Scientific Research, the Swiss National Science Foundation, and the Qatar National Research Fund.



Michel Faup

Manager Innovation and prospective, CNES

Michel Faup graduated from Ecole Supérieure d'Optique in 1983. He joined CNES in 1984 as responsible for the development of sensors for robotics, rendez-vous and docking, non-destructive control and microgravity experiments. In 1989, he was appointed System responsible in an integrated team between ESA and CNES in charge of the development of Silex project (Inter-satellite optical experiment between Spot4 and Artemis).

From 1997 to 2004, Michel Faup was head of various teams in charge of constellation engineering, application engineering, radiocommunications engineering. He was then head of the service in charge of CNES radiocommunications projects during ten years. In January 2016, he joined the CNES Directorate for Innovation, Applications and Science as Manager of Innovation and Prospective.



Dr Binxin Zhang

Assistant Professor, Xiamen University Law School, China, & Visiting Scholar, Sciences Po

Binxin Zhang is a visiting scholar at Sciences Po Law School, on sabbatical from her position as Assistant Professor at Xiamen University Law School. She has previously worked as post-doctoral research fellow at Xiamen Law School; as Legal Officer in the International Committee of the Red Cross Regional Delegation for East Asia; and as a trial monitor of the Asia International Justice Initiative Trial Monitoring group, monitoring the Duch case before the Extraordinary Chambers in the Courts of Cambodia. She has also been visiting scholar at National Taiwan University and the Australian National University.

Binxin Zhang holds a PhD in international law from Renmin University of China. Her main research areas are public international law, international criminal law and procedure, and international humanitarian law. Her publications include various journal articles and book chapters, as well as editing volumes. She is currently working on a joint project aimed at developing a Manual that articulates and clarifies existing international law applicable to military space operations.



Lynette Tan

Executive Director, Singapore Space & Technology Association, Singapore

Lynette Tan is a co-founder and Executive Director of the Singapore Space & Technology Association (SSTA). Established since 2007, SSTA is a non-profit, non-government that serves as the business federation for the local growing space community in Singapore. It provides business match-making, networking platforms, technical training for the industry and Lynette also oversees the mentoring of start-ups and adopting new technologies into the sector, for example AI and Blockchain for space. Another key mission of SSTA, which Lynette is extremely passionate about, is to promote the interest in Science, Technology, Engineering and Mathematics, in particular to grow talents for the space industry. Lynette received her Master of Science in Chemical Engineering from the University of Stanford. She was awarded the highest distinction and the Alumni Award in Chemical Engineering from the University of Illinois – Urbana Champaign. She was a recipient of the Sundstrand-EDB scholarship in 1999.

P
MORNING SESSION
PROGRAMME

UNIVERSITÉ PARIS DESCARTES - Le Grand Amphithéâtre - 12 rue de l'école de médecine - Paris 6^e



MAY 2018

OPENING ADDRESS



Prof Frédéric Dardel
President, Université Paris Descartes

Frédéric Dardel graduated from the Polytechnic School and is a Doctor of cell and molecular biology. After being director of research at CNRS, he joined the University in 2000. He is currently professor at the Faculty of Pharmacy, where he heads the Laboratory of Crystallography and NMR and biological institute Descartes University / Diderot «Medicine, Toxicology, chemistry and Environment» that he created. He is involved in teaching molecular biology and biochemistry at all levels: ASPP, L2 and L3, Master, Doctoral School, and in the dual courses «Medicine / Science» and «Pharmasciences». Frédéric Dardel was Director of the Department of Life Sciences of CNRS, he is Chairman of the Scientific Council of INRA and represents France on the board of the European Molecular Biology Laboratory in Heidelberg.



Prof Geoffrey Sockett
Vice President for International Affairs,
Université Paris Descartes

Geoffrey is a Professor of linguistics and has been teaching in France since 1994. He was professor at the Institut national polytechnique de Lorraine until 2003. He then joined the University of Strasbourg as a lecturer from 2003 to 2014 and became the head of the department of language teaching between 2007 and 2010. Geoffrey Sockett joined the Université Paris Descartes in 2014 as professor of language sciences at the Faculty of Humanities and Social Sciences. His research focuses on educational technology and informal learning of online English.

SESSION 4

HEALTH, AGING AND
BIOTECHNOLOGIES

Innovations to face the challenges
of global health

23 MAY - 9:30

INNOVATIONS in the field of medicine and health are developing at a fast pace. The promising development has been creating significant impact on the society. However, in order for the impact to sustain and advance, the focus of the innovations in the field should be placed around human and be driven by the patients' needs.

CHAIR E D B Y



Dr Alessia Lefebure
Dean of Academic Affairs, EHESP

Alessia Lefebure (PhD) is the Vice-Dean of the French School for Public Health (EHESP), in charge of Academic Affairs. She previously served as Director of the Alliance at Columbia University in the city of New York (USA), a French-American joint-initiative for innovation in global research and education. She is currently adjunct professor at Sciences Po Rennes and previously taught Comparative Public Policy at Columbia University-SIPA, Sciences Po Paris and Tsinghua University in Beijing (China). A sociologist by training, and an internationally recognized expert in global affairs and education, she serves as a member of international boards and committees, in the fields of Development, Migrations, and Empowerment through Education.

ARE WE ALL THE SAME? STUDYING LOCAL BIOLOGY FOR BETTER HEALTH POLICIES

Prof Chong Yap Seng



Prof Chong Yap Seng
Yong Loo Lin School of Medicine, NUS

Abstract

The Growing Up in Singapore Towards healthy Outcomes (GUSTO) study recruited pregnant women attending their first trimester antenatal visit at Singapore's two major public maternity units, namely the National University Hospital (NUH) and KK Women's and Children's Hospital (KKH) between June 2009 and September 2010. The participants were of Chinese, Malay or Indian ethnicity with homogeneous parental ethnic background. Of the 1247 women recruited, 1162 conceived naturally and 85 conceived through in vitro fertilisation. At baseline, 55.9% were Chinese, 26.1% Malay and 18.0% Indian. A total of 1176 babies were born. The first baby was born on 30 November 2009 and the last baby was born on 1 May 2011. During infancy, the babies were examined at home at 3 weeks, 3 months and 3-monthly thereafter until 15 months of age. The children were then seen at the study clinic at 18 months onwards at 6-monthly intervals. The oldest child turned 8 years old in November 2017.

The GUSTO study is probably one of the most comprehensive studies of its kind and aims to determine not only the epidemiological but biological early life origins of metabolic disease and neurodevelopmental disorders that have major public health and economic importance in Asia and globally. With in-depth and frequent examinations and bio-sampling during pregnancy and childhood, we captured data on demography, socio-economic status, lifestyle, dietary patterns, and health, emotional and medical status of the mother and child. This talk will highlight how the findings of this study have led to a change in health policy as well as guiding future healthcare and social interventions in Singapore.

Chong Yap Seng will be appointed Dean of the Yong Loo Lin School of Medicine (NUS Medicine) from 1 January 2019. An Associate Professor in Obstetrics and Gynaecology (O&G) and currently Vice Dean (Academic Medicine) at NUS Medicine, Yap Seng is also a Senior Consultant in the Department of O&G at the National University Hospital and the Executive Director of the Singapore Institute for Clinical Sciences (SICS) under the Agency for Science, Technology and Research (A*STAR).

Yap Seng is a highly respected scholar and researcher in fetal growth and early development, and an eminent medical professional well-known among both the international and local medical and academic community. He has received numerous awards in teaching, research and clinical service, with the more recent one being the National Outstanding Clinician Scientist Award (2017) from the Singapore Ministry of Health's National Medical Excellence Awards, and the Mentoring, Innovation and Leadership in Educational Scholarship Award (2015) from the Asia Pacific Medical Education Conference, NUS. Yap Seng has an impressive research track record particularly in winning

big grants, and has received more than \$100 million in research grant funding to date. He is the Lead Principal Investigator of the National Medical Research Council's (NMRC) Metabolic Translational and Clinical Research Flagship Programme with a \$25 million grant awarded in 2009 and renewed in 2014, and is Co-Investigator of several large A*STAR Strategic Positioning Fund and Industry Alignment Fund-Pre-positioning grants. He is also the Lead Principal Investigator of the Growing Up in Singapore Towards healthy Outcomes (GUSTO) study, Singapore's largest and most comprehensive birth cohort research effort.

Yap Seng has demonstrated strong leadership skills in his administrative appointments. He was the Head of the Medical Education Unit of NUS Medicine from 2004 to 2014, and has been Vice Dean (Academic Medicine) of the School since 2015. Yap Seng has also been Director of the A*STAR-NUS Singapore Centre for Nutritional Sciences, Metabolic Diseases, and Human Development since 2014, and the Executive Director of SICS since 2015.

ACADEMIC-GOVERNMENT PARTNERSHIP IN STARTING SINGAPORE'S WAR ON DIABETES

Prof Teo Yik Ying

Abstract

The formulation of public policies is often reactionary and in response to shocks in governance. However, there is often unbiased and prescriptive information with the vast amount of data collected as part of standard routines in public agencies. This is especially so in deciding healthcare priorities for a country, where there are longitudinal trends in disease patterns and demographic changes in the population that can foretell upcoming or future healthcare crisis. Academia has a long-standing reputation for data-driven evaluation and evidence-based decision making, which provides a useful framework for prioritising the areas of focus for policy makers. Singapore declared a war against diabetes in 2016. This act of war was initiated with data provided by academics who projected the disease and economic burdens of diabetes in Singapore in the coming future, identifying that diabetes alone will impose an unprecedented strain on healthcare resources and infrastructure, one akin to a healthcare crisis that taxes the entire health system. My talk will elucidate the journey of scientific discovery to policy formulation, specifically highlighting the partnership between the policy makers and academics, as well as the subsequent national programmes and interventions introduced that impact the industry and civic societies.



Prof Teo Yik Ying

Dean, Saw Swee Hock School of Public Health,
NUS

Professor Teo Yik Ying is Dean of the Saw Swee Hock School of Public Health, National University of Singapore. Prof Teo majored in statistical genetics, having completed his doctoral training at the University of Oxford after obtaining a Distinction for his Masters in Applied Statistics at Oxford and graduating top of the cohort for in the Bachelor programme in Mathematics at Imperial College, UK. He pursued his postdoctoral training with the Wellcome Trust Center for Human Genetics.

A keen researcher by nature, Prof Teo has gained international recognition for his work in genomics. He has conducted large scale genomic studies on populations from Africa, Europe and Asia, and currently chairs an international consortium investigating the genetic diversity of cosmopolitan and indigenous populations in Asia.

Prof Teo has served as the Director for the Centre for Infectious Disease Epidemiology and Research, where the Centre works closely with the Ministry of Defence. He was also the Founding Director for the Centre for Health Services and Policy Research, which approaches systems-level healthcare issues from a multidisciplinary perspective.

For his contributions and achievements to academic and public health, Prof Teo was the recipient of numerous awards, including the Outstanding Young Persons of the World award in the category of Academic Leadership and Achievements (2015). He was also conferred numerous scholarships during his education. Growing up in a family of educators, Prof Teo is both a passionate and exceptional educator, and has won numerous faculty and university awards for teaching excellence from both NUS and Oxford.



ADVANCES IN PREVENTING SUDDEN CARDIAC DEATH

Prof Xavier Jouven

Abstract

Sudden cardiac death represent almost 10% of the overall mortality and 40.000 in France per year. We founded 8 years ago the Paris Sudden Death Expertise Center to make it possible for all participants to work together , to share experience and skills: firefighters, emergency medical doctors, resuscitation specialists, cardiologists, geneticists, psychiatrists, epidemiologists etc. We collect extensively every case of cardiac arrest occurring in Paris and suburbs, and we analysed already 28.000 cases. This approach helped us addressing several medical and public health issues such as : external automatic defibrillators, where and how many? What are the triggers of sudden cardiac death? How to identify high risk subjects? This multidisciplinary team and integrative approach provided interesting and promising results.



Prof Xavier Jouven
Hôpital européen Georges-Pompidou APHP,
Université Paris Descartes / Inserm

Professor Xavier Jouven is a Professor in cardiology and in epidemiology at the Paris Sorbonne University.

He is the Head of the multidisciplinary department cardiovascular renal and metabolic at the European Georges Pompidou Hospital, and Director of the INSERM Research Unit of cardiovascular epidemiology and sudden death.

He founded the Paris Sudden Death Expertise Center and received in 2013 the Grand Prix of the French Académie of Sciences for his integrative approach.



NUS Centre for Translational Medicine

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MEDICAL EDUCATION FOR SUSTAINABLE HEALTHCARE

Prof Lau Tang Ching

Abstract

As Singaporeans today are living longer and healthier lives, both the healthcare demands and spending will increase due to an ageing population, heavier chronic disease burden, advances in technology and rising expectations.

The presentation aims to share how National University of Singapore Yong Loo Lin School of Medicine, as a key enabler of Singapore's healthcare system, incorporated strategies such as Values-Driven Actions, Mastery Based Lifelong learning, Community Centric Practice, Outcome Focused Evaluation & Aspirational Vision and Mission into the school curriculum. This would ensure that our students are future-ready with the right competencies and attributes to support the nation's push for the "3 Beyonds: Beyond Hospital to Community, Beyond Quality to Value & Beyond Healthcare to Health" of sustainable healthcare.



Prof Lau Tang Ching
Yong Loo Lin School of Medicine, NUS

Lau Tang Ching is a Senior Consultant Rheumatologist in the Division of Rheumatology, University Medicine Cluster in the National University Health System. He has been appointed as the Vice-Dean (Education) of NUS Yong Loo Lin School of Medicine in June 2017 and Group Director of the National University Health System Education Office in February 2018. He graduated in 1991 from the National University of Singapore and obtained his Membership of the Royal College of Physician in United Kingdom

and the Master of Medicine (internal medicine) degree in 1997. He is a fellow of the Academy of Medicine Singapore since 2001. He also holds a Master of Medical Science degree in Clinical Epidemiology (University of Newcastle, Australia), and a graduate diploma in acupuncture (Singapore). His main research interests are in osteoporosis, pharmacoeconomic evaluation, medical education and evidence based medicine. He is currently the chairman of the National Arthritis Foundation.



MOVING FORWARD TO INTERNATIONALISE MEDICAL EDUCATION AND RESEARCH

Prof Gérard Friedlander



Prof Gérard Friedlander

Dean, Paris Descartes Medical School

Gérard Friedlander, MD, PhD was born in 1952. He is currently Professor of Physiology at Paris Descartes University School of Medicine, Head of the Department of Physiology at Georges Pompidou hospital, and Team Leader of the lab "Cellular homeostasis and signaling in liver and kidney pathophysiology" at Institut Necker Enfants Malades, Paris, France. He is Dean of Paris Descartes University School of Medicine. He focused his experimental and clinical research on renal physiology and pathophysiology, water and mineral metabolism, calcium and phosphate homeostasis, chronic kidney

diseases, and on the links between ageing, metabolism and homeostasis. He is the author of more than 200 original publications, and of review articles and book chapters. He has been a member of several Editorial Boards including *Kidney International* and a Subject Editor of *Nephrology Dialysis Transplantation*.

The links between clinical practice, clinical investigation, experimental and translational research and medical education both on dedicated sites and through networks is a field of his interest and expertise.

NEXT GENERATION TECHNOLOGIES FOR CANCER: FROM LIQUID BIOPSY TO PRECISION MEDICINE

Prof Lim Chwee Teck

Abstract

Dealing with rare single cells and being able to manipulate and retrieve them are fast becoming essential first steps for more accurate detection and diagnosis of diseases. For example for cancer patients, circulating tumor cells (CTCs) are known to shed from tumor into blood while they undergo metastasis. In fact, this is of clinical significance as their presence in blood can present possible routes for cancer detection, diagnosis and even therapy. However, the large number of red blood cells complicates cancer diagnosis as it makes detection of these rare CTCs in blood extremely challenging. Here, we address these issues by developing a suite of microfluidic biochips that can effectively detect and isolate cancer cells from blood of cancer patients via a routine blood draw (aka liquid biopsy), rather than through the invasive and painful procedure of tumor biopsy. This technology has since been commercialised through a NUS start-up Clearbridge Biomedics, obtained FDA listing in both China and USA, and over 70 machines have been installed around the world, including Singapore, China, Japan, Australia, UK and USA. These simple, efficient and cost effective microfluidic platforms will be imperative in realizing effective diagnostics through the enrichment of clinical samples for subsequent downstream single cell analysis, molecular analysis and genetic sequencing for detection of druggable mutation for personalized treatment.



Prof Lim Chwee Teck
Director, BIGHEART, NUS.

Professor Lim is the inaugural NUS Society Professor at the Department of Biomedical Engineering, Acting Director of the Biomedical Institute for Global Health Research and Technology as well as Principal Investigator of the Mechanobiology Institute at the National University of Singapore. His research interests include the study of the mechanobiology of human diseases such as malaria and cancer and the development of microtechnologies for disease diagnosis and precision therapy. Professor Lim has authored more than 350 journal papers and delivered more than 340 plenary/keynote/invited talks. He is an elected Fellow of both the American Institute for Medical and Biological Engineering and the International Aca-

demy of Medical and Biological Engineering as well as elected member of the World Council of Biomechanics. He currently sits on the editorial boards of more than 20 international journals. Prof Lim and his team have garnered more than 80 research awards and honors including the International Precision Medicine Conference Prize 2017, Asian Scientist 100 in 2016, ASEAN Outstanding Engineering Achievement Award 2016, Wall Street Journal Asian Innovation Award (Gold) 2012, HFSP Awards 2012, 2018, President's Technology Award 2011 and IES Prestigious Engineering Achievement Award 2010, 2016 among others.



DEMOCRATIZING CELL THERAPY WITH EXTRACELLULAR VESICLES

Prof Florence Gazeau

Abstract

Extracellular vesicles (EVs) are nanometer sized-particles released by cells in all body fluids. They represent potent vectors of biological signals, allowing cell communication and delivering key information implicated in health and diseases from tissue renewal and ageing, to cancer. EVs are natural, endogenous and personalized drug delivery systems that may overcome current limitations of synthetic nanomedicines. Stem-cell derived EVs have also protective and reparative properties, that recapitulate the effects of cell administration in regenerative medicine. EVs have thus the potential to open a new area in cell therapy, mitigating the limitations and hurdles related to the transplantation of living cells. To enable clinical translation of EV-based therapy, our group is developing disruptive technologies for large scale, high yield production and engineering of EVs. Innovative approaches might democratize EV-based regenerative medicine and drug delivery.



Prof Florence Gazeau
Université Paris Diderot

Florence Gazeau, PhD in Physics 1997, University Paris Diderot, is senior scientist in CNRS. PI of the Biother group (<http://biother.net>), she is recognized in the domain of nanomagnetism and nanomedicine. Her research interests include imaging and therapeutic applications of activable nanoparticles, nanotoxicity, life-cycle and long term fate of nanoparticles, mechanobiology of cancer, regenerative medicine and

extracellular vesicles for cell therapy. She is deputy director of the laboratory Matière et Systèmes Complexes (MSC) at USPC (Université Paris Diderot/CNRS) and one of the leaders for the creation of MSC Med laboratory (Université de Paris 2019). She is author of more than 130 publications (h-index of 50, citations >9000) and inventor of 5 pending patents.

PANEL DISCUSSION

speakers 1/2



Prof Marie Véronique Clément
Yong Loo Lin School of Medicine, NUS

A/P Marie-Veronique Clement obtained her basic degree in Cellular Biology (B.Sc) with major in Immunology from Paris-VI University, Paris, France in 1986. She pursued her interest in Immunology during her M.Sc (1987) and PhD (1991) at the Pasteur Institute and Paris-VI University, Paris, France. Following her doctoral studies, she proceeded to the United States (1992-1996) as a post-doctoral fellow in the Department of Pathology at Harvard Medical School/Massachusetts General Hospital, Boston, MA.

It was during her post-doctoral training that she made the significant observation that, contrary to the common belief; an increase in intracellular level of superoxide could inhibit death receptor-induced apoptotic signalling (Clement and Stamenkovic, 1996). She joined the National University Medical Institute, National University of Singapore in 1997 as a Research Associate, was appointed as an Assistant Professor in the Department of Biochemistry, NUS in 2001. As an independent investigator, Dr Clement dispelled the dogmatic view of reactive oxygen species as only toxic molecules by providing evidence for their involvement in cell survival signalling pertinent to carcinogenesis. For this work she was the Recipient of the NUS Outstanding Research Award (team award) in 2005. More recently, A/P Clement's group has made significant progress in the understanding of

the pathway involved in the induction of cell survival by superoxide. In particular, her group showed for the first time the redox control of cell survival and cell death through the regulation of the Na⁺/H⁺ exchanger 1 expression. Her lab also demonstrated that an increase in intracellular level of superoxide contributes to the regulation of the oncogenic kinase Akt through an S-nitrosylation mediated inhibition of the tumour suppressor PTEN and inhibition of the de-phosphorylation of cytosolic Akt by PP2A. These findings led to the proposal of superoxide as an oncogenic reactive oxygen species. More recently, A/P

Clement's Lab showed the critical role for Mn-SOD in the resistance to chemotherapeutic drugs and the regulation of the epithelial to mesenchymal transition in breast cancer. Last year A/P Clement's lab showed the existence of a new redox regulated pathway critical for the regulation of lysosome biogenesis that may be involved in preventing cellular aging. Finally, for the past 10 years apart from being an active researcher and teacher, A/P Clement has also been the Assistant Dean looking after Students Affairs at the Yong Loo Lin School of Medicine.

PANEL DISCUSSION

speakers 2/2



Danuta Pieter
Executive Director - Fondation Hopitaux de Paris-Hopitaux de France

Danuta Pieter – an Imperial College London, HEC Paris and Sciences Po graduate - is the Executive Director of the Fondation Hôpitaux de Paris - Hôpitaux de France, a leading non-profit organization for bringing about change in public health policies for the hospital, co-founded by AP-HP Greater Paris University Hospitals, the largest hospital group in Europe.

She is the special advisor to its President, former First Lady Bernadette Chirac.

Danuta teaches several courses, at Sciences Po in Paris and at the University of Silesia in Katowice, Poland, including one on Philanthropy and Fundraising. Previously, Danuta was an associate researcher at the Center for Geostategic Studies of Normale Sup' Ulm. She then created and ran the department of know-how transfer at Suez Environment - a worldwide utility company. Fluent in 6 languages, she has travelled extensively around the world and is a passionate contemporary art collector.



Prof Benoit Vallet
Senior Auditor at the French Supreme Audit Institution (La Cour des Comptes)

Professor Benoit Vallet acts as a Senior Auditor at the French Supreme Audit Institution ("La Cour des Comptes") in Paris since January 2018.

His training and experience as an MD PhD at the University of Lille (France) allowed him to develop a comprehensive understanding and knowledge of healthcare systems and the critical issue of their strengthening, at all levels. His contribution was engaged in the fields of care and treatment, but also in the questions of monitoring and management when he was elected President of the Medical Executive Board at the University Hospital of Lille (2011-2013).

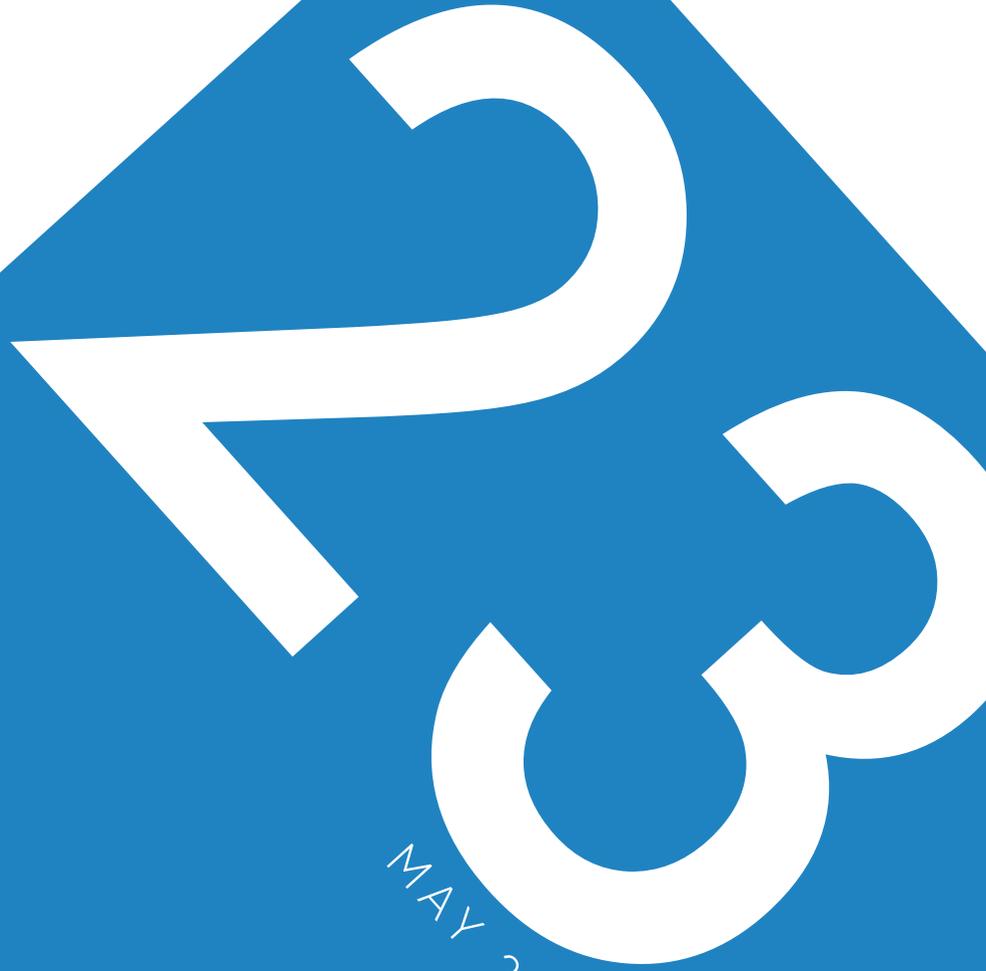
As Director General for Health at the Ministry of Health in Paris (France) from 2013 to 2018, he further developed his approach for the control of health risks and health crisis.

Professor Benoit Vallet has represented France within the WHO Executive Board from 2015 to 2018. He has been strongly involved at both European and international levels, within several key forums involved in public policies and global health. In all of these forums, Professor Vallet's priority has been to improve health promotion, health security, but also the implementation of the International Health Regulations, as a key component of countries capacities to prepare for and respond to health crisis.

He also took action on the necessity to consider the multi-disciplinary and cross-sectorial nature of the factors that determine the state of health of our populations and the strengthening of inclusive healthcare systems.

AFTERN
NOON
PROGRAMME
GRASESSION

UNIVERSITÉ PARIS DESCARTES - Le Grand Amphithéâtre - 12 rue de l'école de médecine - Paris 6^e



MAY 2018

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SESSION 5

SMART LIVES AND
ARTIFICIAL INTELLIGENCE

Innovation in a
Technology Enhanced Society:
What about human centrality?

23 MAY - 14:00

BEING "SMART" is often used to describe the advanced technology generated by artificial intelligence as if it was replacing the human brain (smart city, smart health, smart nation...). Technology is everywhere but does it really make us and our lives smarter? In this tech-enhanced world, where will humans be placed?

CHAIRÉD BY



Didier Pourquery
[The Conversation](#)

Didier Pourquery is co-founder and managing editor of The Conversation France, the francophone operation of the global network The Conversation. He is a graduate of the Institut d'Etudes Politiques of Paris and of the ESSEC Business School. After six years as a free-lance writer and manager in several international corporations, he became a full time journalist. Didier has a 35 years experience as a business reporter and an editor in chief for various newspapers and magazines: Libération, La Tribune, Info-Matin, Prisma Presse, L'Expansion, Metro, Axel Springer and Le Monde. Before launching The Conversation France he was managing editor for Le Monde daily newspaper. He is the author of 10 books.



TECHNOLOGY AND MEDICAL CARE: WHAT ABOUT HUMAN BEINGS?

Dr Cécile Monteil

Abstract

In our modern world, technology has brought unprecedented progress in the healthcare field. Yet, it has been pointed at as a reason for a decline in the doctor and patient relationship. In this conference, we will see how this perception can be shifted so technology enables better interactions between healthcare professionals and patients.



Dr Cécile Monteil
Medical Director, iLumens

Dr. Cécile Monteil is an entrepreneur and physician, who advocates for the beneficial use of new technologies applied to health and medicine while keeping the patient and doctor relationship at heart.

Cécile is a physician working part-time in the Pediatric Emergency Room department of Robert Debré Hospital in Paris and as Medical Director of the medical simulation center iLumens.

At the beginning of 2015, she founded Epporate, an NGO devoted to bridging the gap between the French physician community and

the digital healthcare ecosystem. Today, the community gathers more than 2000+ members and has become a reference in that space.

Cécile Monteil is a regular conference speaker, a blogger, and works with innovative start-ups bringing new ideas to medicine such as Blockchain in healthcare.

As an ambassador for the Thousand Network in Paris, a global community of 1000+ entrepreneurs, she facilitates knowledge and experience sharing among people.

TECHNOLOGY ENHANCED EDUCATION: GOOD THING OR FLASH IN THE PAN?

Prof Erle Lim

Abstract

With the advent of new methods of delivering education such as MOOCs, and new “tech toys”, there has been renewed interest in incorporating such cool technology into higher education, with the result that some faculty are like workmen brandishing hammers looking for nails, rushing to incorporate them into curricula without the right pedagogical and conceptual framework. Such an ungrounded approach could lead to the unproductive consumption of meagre resources – a very real problem in this age. In this talk, the presenter will discuss the educational environment which has necessitated the development and use of VR and AR devices to enhance the students’ learning experiences, whilst being mindful of learners’ outcomes, and asks – is it good or bad that we use tech devices in teaching, and when should we use them?



Prof Erle Lim

Yong Loo Lin School of Medicine, NUS

Associate Professor Erle CH Lim graduated from the National University of Singapore in 1990, and obtained his Masters in Medicine (Internal Medicine) from the same university in 1997. In 2009, he was appointed as a Fellow to the Royal College of Physicians, Glasgow. He trained in Neurology at the Singapore General Hospital, after which he completed his training in Movement Disorders at the Mount Sinai School of Medicine, New York, under Professors C Warren Olanow and Mitchell F Brin. He is currently Senior Consultant Neurologist at the National University Hospital and was Assistant Dean of Education at the Yong Loo Lin School of Medicine, NUS from 2007 to 2010. His subspecialty interest is in Movement Disorders, focusing on the clinical applications of Botulinum toxin, Parkinson’s disease, Spasticity and Dystonia. He lectures on Neurology, Movement Disorders and Education (Medical Education and Technology in Education) regionally and internationally, and teaches techniques of Botulinum toxin injection using electromyographic guidance to neurologists and physiatrists,

regionally and internationally. He has published over 100 papers in international journals, covering topics in general neurology, movement disorders, botulinum toxin, general medicine and medical education, and is reviewer for international journals in Medicine, Neurology, Movement disorders and Medical Education. He is Editor in Chief of the Annals, Academy of Medicine, Singapore, and was founding editor of the Journal of the NUS Teaching Academy (now the Asian Journal of the Scholarship of Teaching and Learning). He sits on the specialist training committee in Neurology and the Neurology MCQ Committee of the Royal College of Physicians, London. In 2006 and 2007, he was awarded both the faculty teaching excellence award and the university’s annual excellence teaching award. In 2007, he was awarded the university’s outstanding educator award. He was Chairman of the Executive Council of the NUS Teaching Academy and is now Associate Provost (Undergraduate Education) at the National University of Singapore.

PANEL DISCUSSION

speakers 1/2



Gregory Renard
Chief AI Officer, X-Brain

As a former math professor and data scientist, Gregory is passionate about a connected world where universal access to information and knowledge frees people to achieve their full potential.

Gregory is a software « industrialization » architect working on supervised and unsupervised ML, deep learning, bot, personal assistant, connected things and voice/semantic search for over than 15 years.

Gregory he is the co-founder of XBrain, Inc., which has created an easy to use cloud-based platform for next generation intelligent web developers. The X-Brain platform supports natural communications between any object or device in the Internet of Things to enable simple applications which model human intelligence.



Prof Françoise Soulié Fogelman
Hub France IA

Françoise Soulié Fogelman has over 40 years' experience in machine learning, social network analysis and big data both in academia and industry. A former graduate from École Normale Supérieure, she holds a PhD from University of Grenoble. She was Professor at the University of Paris 11-Orsay, where she was advisor to 20 PhDs on neural networks/deep learning. She then funded a startup (Mimetics) to later join Atos (as head of a data mining – data warehouse group) and Business & Décision (as Partner) where she created and headed the CRM business unit. At KXEN, she was Vice President Innovation until the company was bought out by SAP. Finally she joined Institut Mines Télécom where she worked for the Big Data platform TeraLab. She then was Professor with the School of Computer Software at Tianjin University (China), head of the Data Science team.

She has co-authored more than 140 scientific publications and 13 books. She is/was an expert for the European Commission, ANR (French National Research Agency), French Competitvity cluster Cap Digital and CCF Big Data Task Force (China).

PANEL DISCUSSION

speakers 2/2



Prof François Taddei
Director, Centre des Recherches Interdisciplinaires, CRI

François Taddei is a researcher in evolutionary systems biology and an expert on the future of research and education. He has created a bachelor, master & PhD programs in the Center for Research and Interdisciplinary (CRI) in Paris to empower the new generations of change makers by training them through research at the frontiers of disciplines.

He conducted a “learning through research” experiment in a primary school from an underprivileged area. Schoolchildren worked with two of France’s leading myrmecologists exploring the frontiers of knowledge. The students were empowered to be actors of their own learning process and their findings about science and themselves triggered the desire to be effective actors in a global society. This experiment is spreading through France where learners from interdisciplinary PhD students to high school work hands in hands in learning through research weekly workshops.

François Taddei has taken the lead of the Institute for Learning Through Research (selected in 2012 by an International Scientific Committee for the French government Innovative Training Program (IDEFI)). He participates in various working groups on the future of research and education in France and internationally (EU, UNESCO, OECD...). He holds the UNESCO Chair “Learning sciences” and has submitted in March 2017 a report on life-long learning at the request of the French Minister of Education.



The Hangar by NUS Entreprise

SESSION 6

EDUCATION AND
LIFELONG LEARNING

Creating a culture of Innovation
through Education and Research

23 MAY - 15:30

RESEARCH AND EDUCATION

are essential to produce knowledge and to nurture skills that are necessary for developing and transforming the society. But what does it really mean to be innovative in education and research? How can we foster creativity, promote effectiveness of learning, and develop the skills that are crucial in the 21st century? How can we collaborate across disciplines to achieve better results?

CHAIR E D B Y



Fung Fun Man

Assistant Director, ALSET, NUS

FUNG Fun Man is the Assistant Director of Education and Core Faculty at the Institute for Application of Learning Science and Educational Technology (ALSET) at NUS. He holds a joint appointment as an IT-for-Teaching Chemistry Instructor at the Department of Chemistry. Fun Man serves as an elected member of the International Chemistry Olympiad Steering Committee since 2014. He leads the Faculty of Science Laboratory-Video IT Taskforce and trail-blazes novel filming methods using IPOV technique, 360° videos and social media.

Fun Man was a recipient of the prestigious University Annual Teaching Excellence Award in 2017 and Faculty Teaching Excellence Award 2016. Since 2015, he has written nine EdTech articles for the university and authored eleven peer-reviewed ACS publications on Technology-Enhanced Education.

Fun Man earned his degrees from NUS and Technische Universität München, Germany. He was awarded the inaugural NUSS Gold Medal for Outstanding Achievement in 2010.



NUS I-cube building

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HOMO CREATIVUS: CREATIVITY IN THE 21ST CENTURY

Prof Todd Lubart

Abstract

A 7 C's perspective on creativity and its' study will be presented. The 7 Cs refer to (1) the Creators (characteristics of those who create), (2) Creating, the process of making, (3) Collaboration, with close others during creation, (4) Context, the physical and social surrounding, (5) Creations, the characteristics of creative productions, (6) Consumption, the uptake and adoption of creativity, and (7) Curricula, learning and developing creativity. Each "C" will be illustrated by empirical or theoretical work that provides some insights into the nature of Homo creativus. For example, work on the creative process shows that traces of artists' activity allow differences between the more original and less original productions to be described. In terms of context, the effects of national cultural contexts as well as virtual work environments on creative performance will be presented. Finally, effects of curricula on the development of creativity will be presented through research on different pedagogies.



Prof Todd Lubart
Université Paris Descartes

Todd Lubart is Professor of Psychology at the Université Paris Descartes, and Member of the Institut Universitaire de France. He received his Ph.D. from Yale University and was an invited professor at the Paris School of Management (ESCP). His research focuses on creativity, its identification and development in children and adults, the role of emotions, the creative process and intercultural issues. Todd Lubart is author or co-author of numerous books, research papers, and scientific reports on crea-

tivity, including the books *Defying the crowd: Cultivating creativity in a culture of conformity* (NY: Free Press, 1995), *Psychologie de la créativité* (The psychology of creativity, Paris: Colin, 2003), and *Enfants Exceptionnel* (Exceptional Children, Bréal, 2006). He is the co-founder of the International Centre for Innovation in Education (ICIE), and the associate editor of *The International Journal for Talent Development and Creativity* (IJTDC).

THE SEVEN MYTHS OF EDUCATIONAL INNOVATION

Prof Pierre Dillenbourg

Abstract

We often hear voices that, interchangeably, mix learning technologies and educational innovation as if these two concepts were the same. Yes, some learning technologies can be innovative but the rest simply is overgeneralization. The fuel of overgeneralization is a rosary of myths that resist to any empirical evidence. I will pick a few of them. The core myth is the belief that specific technologies have intrinsic effects. For instance, I am often asked whether MOOCs are effective for learning. Indeed, in the case of EPFL, we found that our online courses increase the success rate of our students. This is a nice result, but this only means these MOOCs were good for these students, not that MOOCs in general are effective. One can do ineffective MOOCs. This is trivial: MOOCs have no intrinsic effect. The statement can be made for robotics, AR, VR, etc. From there, I will explore a few more ineradicable beliefs that pollute education discourses: learning styles, digital natives, individual instruction, etc. Learning sciences do not ought to be politically correct.



Prof Pierre Dillenbourg
EPFL, Swiss Federal Institute of Technology,
Lausanne and founder of EdTech Collider

Pierre Dillenbourg is full professor in learning technologies at the School of Computer & Communication Sciences, where he is the head of the CHILI Lab: "Computer-Human Interaction for Learning & Instruction" at the Swiss Federal Institute of Technology, Lausanne (EPFL). He has been the academic director of Center for Digital Education, which implements the MOOC strategy of EPFL. In 2017, he launched the Swiss EdTech Collider, an incubator with 60 start-ups in learning technologies. A former teacher in elementary school, Pierre graduated in educational science (University of Mons, Belgium) and started his research on learning technologies in 1984. He obtained a PhD in computer science from the University of Lancaster

(UK), in the domain of artificial intelligence applications for education. He was also assistant professor at the University of Geneva.



HELPING OUR LEARNERS LEARN BETTER USING DATA

Prof Robert Kamei

Abstract

If “data is the new oil,” then the educational landscape has an extreme energy shortage. Educational decisions by students, faculty, and university administrators are rarely based on actual data. Learning Analytics (LA) is defined as “the measurement, collection, analysis, and reporting of data about learners and their contexts, for purposes of understanding and optimizing learning and the environments in which it occurs” (Long & Siemens, 2011). LA examines data for the relationship between learners, content, institution, and instructors, looking for patterns and correlations as well as evaluating tools and pedagogies to provide insight to learners, instructors, and those who support them about how to improve learning.

The Institute for the Application of Learning Sciences and Education Technology (ALSET) was started in 2017 to help our NUS learners learn better. Our focus is to understand learning as it occurs in the classroom using LA, rather than research primarily done in a research laboratory.



Prof Robert Kamei

Director, Institute for Application of Learning Science & Educational Technology, NUS and Associate Provost (Education)

Professor Robert K. Kamei, MD, is Associate Provost (Education) and Director, (ALSET) at the National University of Singapore; a position he has assumed in July 2016.

From 2006 to 2016, he was the founding Vice-Dean (Education) at Duke-NUS Medical School. Under his leadership, Duke-NUS successfully transformed the curriculum from Duke University School of Medicine to a “flipped classroom” This approach was one of the first of its kind in medical education.

Born in Los Angeles, California, he holds an undergraduate degree from Stanford University and a medical degree from the University of California, San Francisco (UCSF). Before coming to Singapore, he was on the UCSF faculty for 18 years.

CROSSING DISCIPLINARY BOUNDARIES: LESSON LEARNED

Prof Jonathan Weitzman

Abstract

I was excited to join our pluridisciplinary university a decade ago. But I was immediately struck how little actual contact there was between the disciplines. Over the years, I have attempted to cross the traditional disciplinary boundaries, to create projects at the interface between disciplines, where teachers and students are encouraged to step beyond their 'comfort zone' and to explore how much they have to learn from each other. I will share my thoughts on some of these experiences, including the creation of the Labex "Who Am I?", the "Académie Vivante" Art-Science initiative and our recent "Dance your PhD" project.



Prof Jonathan Weitzman
Université Paris Diderot

Jonathan Weitzman is a full-professor of Genetics at the Université Paris Diderot and the founding director of the UMR7216 Epigénétique et Destin Cellulaire ("Center for Epigenetics and Cell Fate") created by the CNRS and the Université Paris-Diderot in 2009. He trained at the Universities of Manchester and Oxford, UK. He carried out research at the Dana-Farber Cancer Institute, Harvard Medical School, Boston, USA and was a faculty member at the Pasteur Institute in Paris. Jonathan has a background in signal transduction pathways and expertise in gene regulatory networks and epigenetic contributions to disease. His first book "30 Second Genetics" was published in 2017. Jonathan leads a number of interdisciplinary initiatives

including the Laboratoire d'Excellence "LABEX Who Am I?" a research consortium focusing on questions of identity. He is the coordinator of Académie Vivante, an Art-Science project run with Bétonsalon art center. Jonathan directs the first year of the European Masters' in Genetics at the Université Paris Diderot and the Ecole Universitaire de Recherche G.E.N.E.



Université Paris Diderot

PANEL DISCUSSION



Gabrielle Leroux
Project Manager, e-Education,
Caisse des Dépôts

Gabrielle is leading innovative projects to foster the development of the EdTech scene in France, at the public group Caisse des Dépôts (including the Observatoire-edtech.com initiative and the management of state-funded research & development programs, aimed at bringing together teachers, startups, and research teams to develop and test digital tools for learning and career planning).

She has previously worked for the French Ministère de l'Éducation on digital learning. She has also conducted education research for UNESCO and think tanks in Paris & London. Gabrielle has an MSc in Social & education policy from the LSE and a Master in Public Affairs from Sciences Po Paris.



Carine Sit
Partner, Schoolab

Carine Sit is Partner at Schoolab, a major innovation studio in France, where she supports corporates and cities in the launch and operation of innovation centers and accelerators. Prior to that, she worked 5 years as a strategy consultant, during which she launched and headed an internal innovation lab. During these years, she developed an expertise in social entrepreneurship, as she helped social businesses from the Ashoka network scale-up and worked as a VC for an impact investment fund. She then joined Pernod Ricard (2nd group worldwide in wines and spirit) as the head of the innovation & intrapreneurship lab, where she successfully directed a corporate start-up. She is now coordinating Schoolab expansion in Asia, alongside with corporate innovation projects. Carine has worked and lived in Singapore, Czech Republic, Germany, Australia, Sub-Saharan Africa and Albania. She is also the founder of Compass, a start-up helping students in their vocational guidance.

CLOSING REMARKS

23 MAY - 17:15



Prof Antoine Cazé
Vice President for International Affairs,
Université Paris Diderot

Antoine Cazé was a student at the École Normale Supérieure (Paris). He graduated from the Sorbonne Nouvelle in English, majoring in American Literature. He holds a PhD in American Literature (University Paris Diderot) about the American poet Emily Dickinson - of whom he remains an internationally recognized specialist.

The author of 85 publications, he has devoted his research to American poetry, addressing the question of the lyric/anti-lyric divide in the Modernist and postmodern eras, the representation of the self in poetic discourse, the interactions between poetic discourse and public discourse, and more recently the theory of lyric poetry in the light of Trauma Studies.

Prof. Cazé started his academic career at the University of Orléans, concurrently starting a career as a literary translator. Over the past 20 years, he has worked for renowned French publishers, such as Christian Bourgois, Éditions de l'Olivier, and Gallimard.

Prof. Cazé was appointed at University Paris Diderot in 2008. He has since run the MA Program in Professional Literary Translation, and led the "Observatoire de la Littérature Américaine," a research unit devoted to the study of cutting edge innovative American literature. In 2014, he co-founded the Paris Diderot Center for Translation Studies. He is a member of the LARCA, the only French research unit in the field of English Studies affiliated to the CNRS. In 2014, he was appointed Dean of Humanities, then Vice-President for International Affairs at University Paris Diderot.

Prof Cazé has devoted much of his time to the French Association for American Studies, the board of the Emily Dickinson International Society and received several translation prizes - Maurice-Edgar Coindreau Translation Prize for best translation into French of an American book (2005), the Laure Bataillon Classique Translation Prize of the Maison des Écrivains et des Traducteurs (2015).



Prof Anne Pakir
Associate Vice President, University and Global Relations, National University of Singapore

Anne Pakir, from the Department of English Language and Literature, National University of Singapore (NUS), is the Associate Vice President (University & Global Relations) at NUS. She was Director of the International Relations Office (2008-2017).

She studied at the University of Hawaii, Manoa (PhD in Linguistics) on the NUS Overseas Graduate Scholarship. A Fulbright scholar at U.C. Berkeley (MA in English) and later at Cornell (post-doc), Anne Pakir won a Japan Society for the Promotion of Science (JSPS) award to Tokyo and was an ASEAN University Network (AUN) Distinguished Visiting Professor in Manila. She received the Chevalier dans l'Ordre des Palmes académiques in 2010 from France.

She serves on several editorial boards in the fields of Applied Linguistics, Language Planning, Language Policy, World Englishes and Asian Englishes. Her most recent publication is the co-edited book, *World Englishes: Rethinking Paradigms* (Routledge, 2018) with Low Ee Ling.

She was President of the Singapore Association for Applied Linguistics (SAAL, 1997-2004) and served as Chair of the AILA 2002 World Congress of Applied Linguistics in Singapore. She was also President of the International Association for World Englishes (IAWE, 1998-2000), a member of the TOEFL Board (2004-2009) and President of the Fulbright Association (Singapore) (FAS, 2008-2011). She received the Public Administration Medal (Bronze) awarded by the President of the Republic of Singapore in 2014. She was conferred The Inaugural SAAL Mentoring Medal of Honour in 2015 and an honorary lifelong member of the International Association for Applied Linguistics (AILA) in Jul 2017. As Vice-President of the Asia-Pacific Association for International Education (APAIE) she is leading the co-hosting of the APAIE 2018 Conference and Exhibition in Singapore.



NUS Kent Ridge Campus

USPC-NUS

Collaborations between USPC members
 and NUS departments/faculties as of december 2017

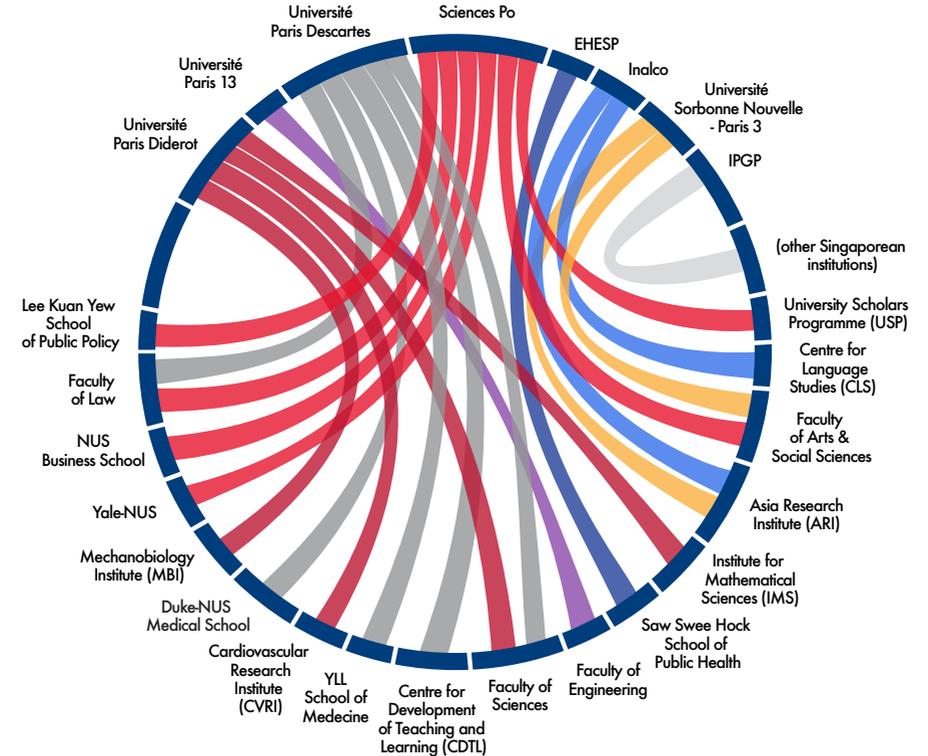
Since 2013, Université Sorbonne Paris Cité (USPC) and the National University of Singapore (NUS) have enhanced their partnership and multiplied the axes of collaboration. A first call for proposals was launched at the inaugural seminar in October 2013 and since this first meeting, the relationship between the two institutions has continued to grow. There are now more than 45 ongoing joint projects in different disciplines and since March 2016, USPC has a representative at NUS.

USPC accounts for 40% of science researchers in the Greater Paris area. It is the n°1 French academic and scientific community in the fields of health and biomedical sciences, of political sciences, of earth sciences and astronomy, as well as of culture, languages and civilisations; it is also a leading institution in other disciplines such as mathematics or physics. USPC members are:

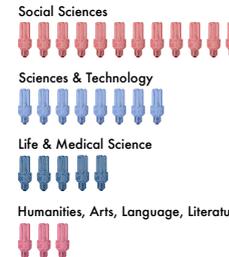
- Université Sorbonne Nouvelle-Paris 3
- Université Paris Descartes
- Université Paris Diderot
- Université Paris 13
- EHESP School of Public Health
- FMSH
- Inalco
- IPGP
- Sciences Po

NUS is Singapore's flagship university consistently ranked first in Asia and among the leading universities in the world. NUS focuses on nurturing future-ready graduates, enhancing Singapore research's translational impact and making Asia's most vibrant university enterprise ecosystem. As of May 2017, 11 faculties and schools and 7 institutes are involved in USPC-NUS:

- Duke-NUS Medical School
- Faculty of Arts and Social Sciences
- Faculty of Engineering
- Faculty of Law
- Faculty of Sciences
- Lee Kuan Yew School of Public Policy
- NUS Business School
- Saw Swee Hock School of Public Health
- University Scholars
- Yale-NUS College
- Yong Loo Lin School of Medicine
- Asia Research Institute (ARI)
- Cardiovascular Research Institute (CVRI)
- Centre for Development of Teaching and Learning (CDTL)
- Centre for Language Studies (CLS)
- Institute for Mathematical Sciences (IMS)
- Institute of Water Policy (IWP)
- Mechanobiology Institute (MBI)



28 research projects funded



26 papers in peer-reviewed Journals



28 other scientific communications



90 visits for research/teaching and partnership purposes

17 PhD mobility & Medical student exchanges



10 teaching projects funded



7 NUS visiting profs & staff exchanges



103 undergraduate semester exchanges (2014-2017)

For further information, please visit our website:
<http://www.sorbonne-paris-cite.fr/en/uspc-nus-collaborations>



ORGANISED BY USPC



Dr Mariana Losada
Director USPC Singapore office

Mariana Losada is the head of the USPC-NUS programme and visiting senior research fellow at the Lee Kuan Yew School of Public Policy, NUS. She has established and developed the whole cooperation between USPC and NUS. She also represents USPC in Southeast Asia.

Mariana holds a PhD in Political Science from Sciences Po where she specialized in the internationalization of Higher Education. During her doctoral studies, she was Visiting Fellow at the University of Oxford and the University of Chicago.

Born and raised in Argentina, she has been studying and working abroad half of her life. Over the past decade, she has held management roles in the field of Higher Education in institutions such as UNESCO, UNICEF, Amue (a French public university consortium), AEF (a press agency specialized in Higher Education) and Sciences Po where she was in charge of all the partnerships with Southeast Asia. Her experience in the public and private sector has spanned across areas such as internationalization strategies of universities, how technology changes education and strengthening synergies between universities and business.

mariana.losada@sciencespo.fr



Altaina Thilgès
Project Manager, International Affairs, USPC

Together with the Delegate Director for International Relations, Altaina is in charge of the follow-up, promotion and development of USPC's international partnerships. She is responsible for liaising and coordinating the international activities of USPC gathering various stakeholders. As such, she ensures the implementation of an effective and consistent international cooperation strategy.

Altaina holds a Master degree in International Cooperation from Université Sorbonne Nouvelle (Institut des Hautes Etudes de l'Amérique Latine) where she specialized in the dynamics of academic cooperation between Europe and Latin America and the internationalization of higher education.

Previously, she was project officer of USPC's strategic partnership with Argentina where she coordinated several scientific events between France and Argentina. She has also worked for several international organizations and private foundations (Organización de los Estados Americanos, Organización Universitaria Interamericana, Fundar Galapagos). Altaina is a French citizen and has lived and studied in Argentina, Cuba, Ecuador and Peru.

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IN PARTNERSHIP WITH



Office of the Vice President (University & Global Relations)

The Office of the Vice President (University & Global Relations) leads the University in its strategic development to become a leading global university through impactful global programmes and strong relations and collaborations with diverse local and global stakeholders. It formulates and oversees the implementation of the University's global strategies as well as strategic communications within the University and beyond.

Global Relations Office (GRO)

The Global Relations Office (GRO) fosters partnerships with premier institutions around the world to enhance NUS' standing as a world-class institution. In tandem with NUS' vision of becoming a leading global university centred in Asia, GRO (established in 1996 as the International Relations Office) has developed meaningful international engagements with many peer institutions and fostered interactions and collaborations in education, research and technology that benefit our students, staff and other stakeholders. Besides the Student Exchange Programme (SEP), GRO also works with NUS faculties and schools on other overseas attachments including international summer/winter programmes (i-SP), international research attachment programmes (i-RAP) and Study Trips for Engagement and EnRichment (STEER).

May Yee (Associate Director, GRO)

Debbie Choi (Manager, GRO)

SPECIAL THANKS TO

H.E. Marc Abensour (Ambassador of France to Singapore)

Sirine El Bekri (CNRS@ASEAN)

Franck Zenasni (Université Paris Descartes & CRI)

Emilie François Seneschal (Université Paris Descartes Medical School)

Robert Marino (SATT IDFInnov - Hello Tomorrow)

Sophie Pène (Center for Research and Interdisciplinarity, CRI)

Gaëll Mainguy (Center for Research and Interdisciplinarity, CRI)

He Tingfeng (Global Relations Office, NUS)

Pascal Hersen (Université Paris Diderot & CRI)

Graphic design: Alexandre Biotteau

Credits:

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