



List of the laureates for the  
Short-Stay program  
« Make Our Planet Great Again »  
July 2018

**Final list (68 laureates)**

**Maria AGGELAKI (Greece)**

*Atmospheric Degradation and Air-Quality and Climate Change Impact of Furan-based Biomass Burning Emission Products: A Kinetic and Mechanistic study.*

Atmospheric Sciences and Environmental Engineering Department - Institut Mines Telecom – Université de Lille

**Syed Ali NAWAID ALAM (Pakistan)**

*Low Carbon Development Scenarios in Russia by 2050 And Beyond*

Centre international de recherche sur l'environnement et le développement

**Vladimir AN (Russian)**

*New photocatalytic materials for renewable energy based on ceria thin films modified with metal particles using high-energy impact methods*

Institut de Recherche de Chimie Paris - ENSCP

**Abderrahim BAKAK (Morocco)**

*Carbon nanoparticles for better heat extraction and transport*

Arts et Métiers ParisTech - Angers

**Prabeer BARPANDA (India)**

*Developing high energy-density polyanionic cathodes for large-scale sodium-ion batteries*

Laboratoire réactivité et chimie des solides - Université de Picardie Jules Verne - Amiens

**Basak BAŞOĞLU (Turkey)**

*Is there a prospect of climate change liability?*

Université Panthéon-Assas (Paris 2)

**Adrian BURD (United Kingdom)**

*Connecting Biological Pump Models to Organic Particle Profile Data in the Oceans*

Laboratoire d'océanographie de Villefranche – Sorbonne Université

**Sebastiano CAMPISI (Italy)**

*Hydroxylapatite-based materials for environmental catalysis: a thermodynamic insight on the metal uptake process*

Institut de recherches sur la Catalyse et l'Environnement de Lyon- Université Claude Bernard - CNRS



**Michael CAMRON (United States)**

*Combining CloudSat observations and CESM simulations to untangle the past, present, and future of Greenland ice sheet precipitation*

Laboratoire de Météorologie Dynamique – Sorbonne Université - Ecole Polytechnique

**Lucas CERNUSAK (Australia)**

*Stable isotopes in leaf water as recorders of plant responses to global climate change*

UMR SILVA - Institut National de la Recherche Agronomique (INRA)

**Camila COSTA (Brazil)**

*Multimetals biosorption using residue from alginate extraction from seaweed *Sargassum filipendula**

Institut Pluridisciplinaire Hubert Curien - Université de Strasbourg

**Laurence COURSOL (Canada)**

*Added value of a far-infrared spaceborne interferometer in complement to currently deployed infrared atmospheric sounders*

Centre National de Recherches Météorologiques - Météo France - CNRS

**Dibakar DAS (India)**

*Lead-free ceramics for low-loss capacitors dedicated to electrical energy storage*

Unité de Dynamique et Structure des Matériaux Moléculaires - Université du Littoral - Côte d'Opale

**Cheikh Waly DIEDHIOU (Senegal)**

*Characteristics of Intensity-Duration-Frequency (IDF) Curves in West Africa and Impacts of Climate Change on Hydrological Regimes*

Institut des Géosciences de l'Environnement - Université Grenoble Alpes – CNRS - IRD

**Antoine GAGNON-POIRE (Canada)**

*Reconstructing past hydrology of an eastern Canadian boreal catchment using clastic varved sediments and hydroclimatic modeling.*

GEOAZUR - Université de Nice Sophia-Antipolis – CNRS - IRD

**Alicia Loreto GARCIA COSTA (Spain)**

*Development of electro-oxidation processes for the abatement of perfluorooctanoic pollutants (PFOA/PFOS) in wastewater treatments*

Laboratoire de Génie Chimique - Université Toulouse 3

**Vicente GARCIA-NAVAS (Spain)**

*Diversity dynamics in French land bird communities: quantifying the multiple dimensions of biodiversity from a multifaceted approach*

Laboratoire d'Ecologie Alpine - Université Grenoble Alpes

**Pablo GASTAMINZA (Spain)**

*New strategies to fighting mosquito-borne viruses*

CIRI - INSERM - CNRS – ENS - Université de Lyon 1



**William HAMMOND (United States)**

*To tree, or not to tree? Mechanisms of tree mortality under global-change-type drought*

Physique et physiologie Intégratives de l'Arbre en environnement Fluctuant – INRA – Université Clermont - Auvergne

**Melissa HARDY (United States)**

*Development of Sustainable Fluorination Methods through Mechanochemistry*

COBRA - Université de Rouen Normandie - CNRS

**Cheryl HARRISON (United States)**

*Impact of the Loop Current variability on connectivity and dispersal across the Gulf of Mexico and the Caribbean*

Institut Méditerranéen d'Océanologie - Aix-Marseille Université – Université de Toulon – IRD - CNRS

**María Dolores HIDALGO GALVEZ (Spain)**

*Dehesa systems coping with global change: a multi-functional approach*

Laboratoire d'Ecologie Alpine - Université Grenoble Alpes – CNRS

**Karen HOLMBERG (United States)**

*Geoknowledge, environmental change, and volcanic eruption: the use of the past to inform the future*

Laboratoire de Géographie Physique – Université Panthéon-Sorbonne (Paris 1)

**Benjamin HOLTZMAN (United States)**

*New methods in rock mechanics for improving the efficiency and safety of deep geothermal heat mining for CO<sub>2</sub>-free power generation*

Laboratoire de Mécanique et Génie Civil - Université Montpellier

**Elena IVANOVA (Russia)**

*Reconstruction of decadal environmental changes in High Arctic fjords and their sustainability to climatic changes*

Laboratoire d'Océanographie et du Climat : Expérimentations et Approches Numériques - Sorbonne Université

**Nadir JEEVANJEE (United States)**

*On convective mixing from entraining thermals*

Institut de recherche sur les phénomènes hors équilibre - Aix-Marseille Université - CNRS

**Herve Thierry KAMDEM TAGNE (Cameroon)**

*Effect of the Central Africa Vegetation Canopy on Climate Change: Models Development and Deforestation*

*Implications on Carbon Budget*

Institut P<sup>1</sup> - Université de Poitiers - ENSI

**Sutisa KHEMPAKA (Thailand)**

*Protein expression in uterine fluid of fast and slow growing broiler breeder strains facing acute heat stress*

Physiologie de la reproduction et des comportements - Université François Rabelais - INRA

**Aino KORRENSALO (Finland)**

*Linking plant properties with peatland carbon sink and storage by gathering data across global climate and nutrient gradients*

Laboratoire écologie fonctionnelle et environnement - Université Toulouse 3 – CNRS



**Alessandra LEHMEN (Brazil)**

*Shaping a New Climate Governance in a Multipolar World: Access to Environmental Justice*

Droits international, comparé et européen - Aix-Marseille Université

**Alba LOZANO (Spain)**

*Recovery of critical elements from waters affected by acid mine drainage: towards a circular environmentally - friendly economy*

Institut des Sciences de la Terre - Université Grenoble Alpes – CNRS – IRD - IFSTTAR

**Stephen MABERLY (United Kingdom)**

*Assessing the risk of reduced future seagrass productivity and global carbon sequestration*

Bioénergétique et ingénierie des protéines - Aix-Marseille Université

**Zbynek MALENOVSKY (Czech Republic)**

*PHotosynthesis Observations of fluorescence from Space in SILico (PHOSSIL)*

Centre d'Études Spatiales de la Biosphère – Université Toulouse 3 – CNRS - CNES - IRD

**Diana MARIN EDERRA (Spain)**

*Evaluation of hydraulic properties and vascular connections at the scion level of different graft x rootstock combinations for Vitis*

Université Clermont – Auvergne - INRA

**Joan MARTI MOLIST (Spain)**

*Predicting supereruptions and their environmental impacts*

Institut des Sciences de la Terre d'Orléans - Université d'Orléans - CNRS

**Karla Catalina MARTINEZ CRUZ (Mexico)**

*Exploring the microbial community attached to the polymer mats produced by *Didymosphenia geminata* from Chilean Patagonian ecosystems*

Laboratoire écologie fonctionnelle et environnement - Université Toulouse 3 – CNRS

**Laura MAYOL (Argentina)**

*Wind Power Simulations to Foster the Energy Transition*

Centre National de Recherches Météorologiques - Météo France - CNRS

**Marcelle Franca MEGUEM MBOUJDA (Cameroon)**

*Domestication syndrome in *Dacryodes edulis* (Burseraceae): comparative analysis of wild and cultivated populations, and perspectives for species conservation, sustainable management and use*

Diversité, adaptation, développement des plantes – IRD Montpellier

**Jennifer MICHEL (Germany)**

*Soil carbon priming across contrasting treelines*

Unité Mixte de Recherche sur l'Ecosystème Prairial - INRA



### **Donald MILES (United States)**

*Integrating temporal and spatial variation in biophysical attributes with ecophysiological and demographic data to predict extinction and persistence of ectothermic vertebrate populations*

Station d'écologie théorique et expérimentale (SETE) - Université de Toulouse 3 - CNRS

### **Sega NDAO (Senegal)**

*Estimates of enteric methane emission factor from Ndama Cattle*

Systèmes d'Élevage Méditerranéens et Tropicaux – CIRAD Montpellier

### **Thai Huyen NGUYEN (Vietnam)**

*Dynamics of the territories of waste collection and recycling in Hanoi, Vietnam*

Centre d'Etudes en Sciences Sociales sur les Mondes Africains, Américains, Asiatiques – Université Paris Diderot – IRD

### **Hiroaki ONO (Japan)**

*Towards more resistant rubbers for Fuel Cell Vehicles and Hydrogen stations: in-situ X-ray tomography of decompression failure in a series of high-pressure hydrogen exposed rubbers with controlled microstructures*

Institut P' : Recherche et Ingénierie en Matériaux, Mécanique et Energétique - ISAE-ENSMA – Université de Poitiers

### **Alberto PALMERO (Spain)**

*Highly Responsive and Low-Power Consumption Sensor Devices for Real-Time Monitoring of Greenhouse Gases (RESPIRE)*

Institut Franche-Comté Electronique Mécanique Thermique et Optique - Sciences et Technologies - Université Bourgogne Franche-Comté

### **Tamlin PAVELSKY (United States)**

*Developing a Comprehensive Hydrology Science Roadmap for the SWOT Satellite Mission*

Laboratoire d'études en Géophysique et océanographie spatiales - CNES – IRD

### **Alida PEREZ FODICH (United States)**

*Understanding how weathering in the Critical Zone influences hydrologic systems*

Institut de physique du globe de Paris - Université Sorbonne Paris Cité

### **Theodora PERROU (Greece)**

*Climate change adaptation and flood risk management in Transboundary River Basins (TRB): TRB flood monitoring contributing to risk management using Earth Observation data and GIS*

Cités, Territoires, Environnement et Sociétés - Université François Rabelais – CNRS

### **Verónica POZA NOGUEIRAS (Spain)**

*Electrode development for advanced oxidation processes applied to the degradation of emerging contaminants*

Conditions Extrêmes et Matériaux : Haute température et Irradiation - Université d'Orléans - CNRS

### **Hollie PUTNAM (United States)**

*Coral acclimatization to rapid global environmental change*

Centre de recherche insulaire et observatoire de l'environnement - Université de Perpignan - CNRS



**Lalaina RANAIVOSON (Madagascar)**

*Effects of cropping systems on improving rainfed rice production by modelling approach*  
Agroécologie et intensification Durable des cultures Annuelles – CIRAD - Montpellier

**Josep SANCHIS SANDOVAL (Spain)**

*NanoSafe-Water*

Institut des Sciences Analytiques et de Physico-Chimie pour l'environnement et les Matériaux - Université de Pau et des Pays de l'Adour - CNRS

**Javier SCHMIDT (Argentina)**

*Development of new solar cell concepts for massive energy production*

Laboratoire Génie électrique et électronique de Paris - CentraleSupélec Paris – Université Paris-Sud

**Manabu SHIRAIWA (United States)**

*Secondary Organic Aerosol Formation in Atmospheric Models of Climate and Air Quality*

Laboratoire inter-universitaire des systèmes atmosphériques - Université Paris Est Créteil - CNRS

**Tionhonkele Drissa SORO (Côte d'Ivoire)**

*Spatio-temporal analysis of bushfires dynamics in a West African country with fire hazard: the case of Côte d'Ivoire*  
Territoires, Environnement, Télédétection et Information Spatiale, Agro ParisTech - Paris

**Magatte SOW (Senegal)**

*Analysis of the spatio-temporal distribution of drought episodes in Senegal in observations, meteorological reanalysis and the regional high-resolution model CP4-Africa*

Centre National de Recherches Météorologiques - Météo France - CNRS

**Jennifer SWENSON (United States)**

*Bridging radar and multispectral remote sensing to predict climate change impacts on forest ecosystems*

Interaction Sol Plante Atmosphere - INRA

**Yen Joe TAN (Malaysia)**

*Monitoring Subduction Zones: Identifying and Characterizing Slow Slip Events with Earthquake Rate Changes*

Institut des Sciences de la Terre - Université de Savoie Mont Blanc

**Katsumasa TANAKA (Japan)**

*Can we bet on temperature overshoot and negative emissions to achieve the Paris Agreement temperature targets?*

Laboratoire des Sciences du Climat et de l'Environnement – Université Versailles Saint-Quentin – CEA - CNRS

**Sara TELHA (Morocco)**

*Study, design and characterization of meta-surfaces for photovoltaic cells efficiency improvement*

Institut Franche-Comté Electronique Mécanique Thermique et Optique - Sciences et Technologies - Université Bourgogne Franche-Comté

**Anastasiia TUMAKOVA (Russia)**

*Synthesis and optimization of thermoelectric materials for sustainable energy systems*

Institut Charles Gerhardt - Université de Montpellier - CNRS





**Rebecca TYSON (Canada)**

*Maximising beneficial plant-microbe interactions for sustainable agriculture*

Laboratoire de Mathématiques – Université Savoie Mont-Blanc

**Nicholas WEBB (Australia)**

*Impacts of land use and land cover change on Sahelian wind erosion and implications for the climate resilience of agropastoral systems*

Institut d'écologie et des sciences de l'environnement de Paris - Sorbonne Université

**Jeremy WEISS (United States)**

*Improved Understanding of Changes in Tardive Frosts for Orchards and Vineyards through Analysis of Corresponding Synoptic Weather Patterns*

Agroclim – INRA - Avignon

**Ryan WILHELMI (United States)**

*Exhumation of the Yellowstone Crescent High Terrane: Dynamic Topography, Tectonics and Climate*

Institut des Sciences de la Terre - Université Grenoble Alpes

**David WILLIAMS (United Kingdom)**

*Minimising consequences of climate change on biodiversity and ecosystem services*

Centre d'Ecologie Fonctionnelle et Evolutive - Université de Montpellier – CNRS

**Steve WRATTEN (New Zealand)**

*The future of ecological intensification in agroecosystems*

Institut de Recherche sur la Biologie de l'Insecte (IRBI)- Université de Tours – CNRS

**Zongyou YIN (Singapore)**

*Two-dimensional materials for efficient light harvesting in the conversion of water and greenhouse gases to solar fuels*

Laboratoire des solides irradiés - Ecole Polytechnique – CNRS - CEA

**Denis ZHIGUNOV (Russia)**

*Heavily doped silicon nanocrystals ensembles for efficient light harvesting in plasmonic-enhanced solar cells*

Institut Jean Lamour (Matériaux - Métallurgie - Nanosciences - Plasmas - Surfaces) - Université de Lorraine

For more information, please send an email to [mopga@campusfrance.org](mailto:mopga@campusfrance.org)

