

Collaborative research Success stories through and beyond NILS programme May 26, School of Mathematics, Universidad Complutense de Madrid www.nilsmobilityproject.es

10:00 - 10:30 PRESENTATION

Johan Christopher Vibe, Norwegian Ambassador in Spain

Carlos Andradas, Rector of Universidad Complutense de Madrid

Anita Klecha, Financial Mechanism Office of the EEA Grants

Veena Gill, Norwegian Center for Internationalization of Education

Vidar Helgasson, Icelandic Center for Research

Marion Kindle-Khünis, National Agency for International Education Affairs, Liechtenstein

Pilar Soler, Ministry of Financies and Public Administrations

Marta Arregi, NILS Director

10:30 – 12:00

TALKS: SUCCESS STORIES AND FUTURE OPPORTUNITIES

SUSOX project: Example of succesful collaborative research on materials science Ana Cremades (Universidad Complutense de Madrid); Smagul Karazhanov (Institute for Energy Technology, Norway); Bianchi Méndez (Universidad Complutense de Madrid).

Automated segmentation and disease progression analysis of focal brain pathology using novel knowledge based algorithms Atle Bjornerud (Oslo University Hospital, Norway); Mariano Rincón (Universidad Nacional de Educación a Distancia).

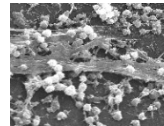
Factors that control intestinal bacteria and how they influence our health Ingolf Nes (Norwegian University of Life Sciences, Norway); Gaspar Pérez (Instituto de Agroquímica y Tecnología de Alimentos-IATA).

Market-based fisheries governance, marine reserves and coastal communities: Developing interdisciplinary empirical research Niels Einarsson (Stefansson Artic Institute, Iceland); Duarte Vidal (Universidade A Coruña).

Data-mining for modelling aquaculture fisheries synergies over wild fish assemblages Kilian Toledo Güedes (Universidad de Alicante); Ingebrigt Uglem (Norwegian Institute for Nature Research, Norway).

12:00 – 13:00

COFFEE, POSTERS AND FREE DISCUSSIONS: SUCCESS STORIES AND FUTURE OPPORTUNITIES



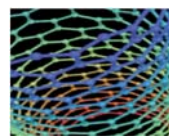
Multiscale description of biofilms A. Carpio (Universidad Complutense de Madrid, Spain), B. Birnir (University of Iceland, Iceland).



Microbial communities of icelandic extreme habitats: new reservoirs for natural resources A. Aguilera, INTA, M. Altamirano (Universidad de Málaga, Spain), S. Suominen, S. Pétursdóttir, E. Olgudóttir and E. Eik Guðmundsdóttir (Matis, Iceland), G. Óli Hreggviðsson (Matis, University of Iceland, Iceland).



Sustainability of cardiology services: economic evaluation and communication in remote monitoring of people with pacemakers A. López Villegas (Universidad de Almería, Spain), D. Catalán Matamoros (Universidad Carlos III de Madrid, Spain), K. Tore Lappegard (University of Tromso, Norway), R. López Liria (Universidad de Almería, Spain), T. Enebakk (Norland Hospital, Norway), H. Thunhaug (Nordland Hospital, Norway), S. Peiró Moreno.



Formal methods for the development and evaluation of sustainable systems D. De Frutos Escrig, I. Fábregas (Universidad Complutense de Madrid, Spain).



Evidence of sudden climate and glacial changes in Iceland and Iberian mountains during the last millenniums D. Palacios and N. De Andrés (Universidad Complutense de Madrid, Spain); S. Brynjólfsson (Icelandic Institute of Natural History, Iceland); Þ. Sæmundsson, (University of Iceland, Iceland).



A Comparison between Norway's Government Pension Fund Global and the Gulf Cooperation Council's major Sovereign Wealth Funds E. Wirth (Universidad Complutense de Madrid, Spain).

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Whales & socio-environment in the Barents Sea F. Breton (Universitat Autònoma de Barcelona, Spain), S. Jentoft (University of Tromso, Norway), R. Ubach, A. Marín, M. Baeta, A.J. Trujillo-Martínez (Universitat Autònoma de Barcelona, Spain).



Novel tools and methodological advances in modelling and analysing the sustainability of future energy systems: Outcomes of the SuReTool project J. Dufour, D. García-Gusano, D. Iribarren and M. Martín-Gamboa (IMDEA-Energía, Spain), A. Lind and K. Espegren2 (Institute for Energy Technology, Norway) and J. Dufour (IMDEA-Energía, Universidad Rey Juan Carlos, Spain).



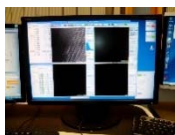
High Resolution Modeling of Precipitation in Sierra de Guadarrama L. Durán (Universidad Complutense de Madrid, Spain); I. Barstad (Uni Research, Norway).



Breathing new life into European education from Norway to Spain L. Arias (UCM), L. Quintanilla (Universitat de Valencia, Spain), F. Pons (University of Oslo, Norway) and M. Giménez-Dasí (Universitat de Valencia, Spain).



Dynamic and stochastic routing and scheduling problems in maritime transportation G. Tirado Domínguez (Universidad Complutense de Madrid, Spain), I. Magnus Hvatum (Molde University College, Norway), K. Fagerholt (Norwegian University of Science and Technology, Norway).



THINNIA: Nano-sized proton conductors for the next generation of environmentally friendly fuel cells A. Magrasó (Centro de Investigación en Nanociencia y Nanotecnología CIN2-CSIC, Spain), T. Norby (University of Oslo, Norway), J. Santiso (CIN2-CSIC, Spain).



Leading approaches for long-term thinking for Sustainable Development in Higher Education and Business in the North of Norway M. Fernández (Nord University, Norway); O. Jakobsen (University of Nordland, Norway).



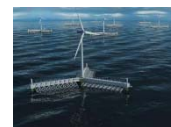
Assessment of the toxicity of sediments from the Mediterranean basin: an -omic approach C. Porte (Instituto de Diagnóstico Ambiental y Estudios del Agua IDAEA-CSIC, Spain), E. Pérez-Albadalejo (IDAEA-CSIC, Spain), D. Fernandes, R. Lille-Langøy, O. André Karlsen, A. Goksøyr



Governance in complexity: assessing promises for a sustainable future Z. Kovacic (Universitat Autònoma de Barcelona, Spain).



Sea lice infestations on Norwegian sea trout populations: potential causes, consequences and future guidelines P. Arechavala-López (Universidad de Alicante, Spain), M. Berg, I. Uglem, P- A. Bjørn, B. Finstad (Norwegian Institute for Nature Research, Norway).



Integration of wave and wind marine energies in electric power systems networks A. Domínguez (Universidad de Zaragoza, Spain); E. Tedeschi (Norwegian University of Science and Technology, Norway).



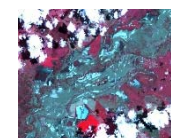
Catalytic transformation of lipid biomass to biodiesel and value-added chemicals J. Aracil (Universidad Complutense de Madrid, Spain); J.M. Marchetti (Norwegian University of Life Sciences, Norway), et al.



Sustainable development as an innovation opportunity in management model of public organizations G. Maraver (Universidad de Granada, Spain), et al.



Simulation of the three phosphorylation steps of several nucleoside reverse transcriptase inhibitors of HIV virus by MP2 ab initio method and M06-L and M06-2x DFT quantum chemical methods. Experimental interpretation of these steps by infrared and Laser Raman vibrational spectroscopy M. Alcolea Palafox and D. Kattan (Universidad Complutense de Madrid, Spain), N.K. Afseth (NOFIMA AS, Norway).



Flow in Deformable Porous Media. Application to Carbon Dioxide Storage F.J. Gaspar, Carmen Rodrigo Cardiel (Universidad de Zaragoza, Spain), et al.

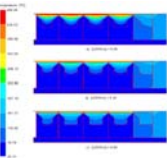
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Conservation laws of differential equations beyond Lagrangian Methods: Exponential symmetries. María S. Bruzón, María L. Gandarias (Universidad de Cádiz, Spain), Roman Kovlov (Norwegian School of Economics, Norway).



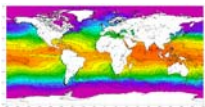
Cognitive Radio and High Performance Computing Applications J. Olivares (Universidad de Córdoba, Spain), R. Palomar (The Intervention Centre, Oslo University Hospital, Norway), F. León (Universidad de Córdoba, Spain), I. Balasingham (The Intervention Centre, Oslo University Hospital, Norway), J. Gómez-Luna (Universidad de Córdoba, Spain), O. J. Elle (The Intervention Centre, Oslo University Hospital, Norway), A. Cubero (Universidad de Córdoba, Spain), F. Alaya (Norwegian University of Science and Technology, Norway), J. M. Palomares (Universidad de Córdoba, Spain).



Experimental and modelling comparison of a Siemens and a Fluidized bed reactor – do silicon price need to effect cell quality? A. Ramos (Instituto de Energía Solar – Universidad Politécnica de Madrid); W.O. Filtvedt and D. Lindholm (Institute for Energy Technology, Norway), P.A. Ramachandran (Washington University, USA), A. Rodríguez (Universidad Complutense de Madrid, Spain); C. del Cañizo (Universidad Politécnica de Madrid, Spain).



Conservation laws of differential equations beyond Lagrangian methods through nonlocal symmetries María S. Bruzón, María L. Gandarias (Universidad de Cádiz, Spain), Roman Kovlov (Norwegian School of Economics, Norway).



Influence of Sea Surface Temperature on Rainfall variability B. Rodríguez-Fonseca (Universidad Complutense de Madrid, IGEO-CSIC, Spain), E. Mohino Harris (Universidad Complutense de Madrid, Spain), L. Svendsen (Nansen Environmental and Remote Sensing Center, Norway), N. Keenlyside (University of Bergen, Norway), J. Bader (Max Plank Institute fur Meteorology, Germany).



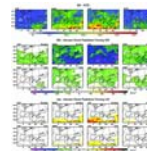
Magnetic fabrics of Neogene pyroclastic density currents from eastern Iceland M. S. Riishuus (Institute of Earth Sciences, University of Iceland, Iceland); V. C. Ruiz-Martínez (Universidad Complutense de Madrid, Spain).



Genomic selection: application in the Spanish Arab horse breeding program I. Cervantes (Universidad Complutense de Madrid, Spain) and T.H.E. Meuwissen (Norwegian University of Life Sciences, Ås, Norway).



Robotics for Sustainable Farming of High-Value Crops in Norway: A Case Study on Sugar Pea Harvesting M.F. Stoelen (Plymouth University, UK and Universidad Carlos III de Madrid, Spain); V.F. Tejada (Plymouth University, UK and Universidad Carlos III de Madrid, Spain); K. Kusnierek (Norwegian Institute of Bioeconomy Research, Norway); N. Heiberg (Gartnerhallen SA, Oslo, Norway), C. Balaguer (Universidad Carlos III de Madrid, Spain), A. Korsæth (Norwegian Institute of Bioeconomy Research, Norway).



Impact of aerosols' definition on regional climate simulations over North Africa, the Middle East and Europe M. Gonçalves-Ageitos (Centro Nacional de Computación and Universitat Politècnica de Catalunya, Spain), O. Jorba (Centro Nacional de Computación, Spain), C. Pérez García-Pando (NASA Goddard Institute for Space Studies, New York, USA), M. Schulz (Norwegian Meteorological Institute, Norway).



Stochastic dynamics in Ecology Francisco J. Cao (Universidad Complutense de Madrid, Spain); Oyvind Fiksen, Dag Aksnes (University of Bergen, Norway); Jarle Tufto, Steinar Engen (Norwegian University of Science and Technology, Norway).



Design of geometric integration algorithms M. Barbero, K. Ebrahimi-Fard (Instituto de Ciencias Matemáticas -ICMAT - CSIC-UAM-UC3M-UCM, Spain).