
# PROGRAM

| | MONDAY 29 JUNE |
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| 15h00 | *Opening* |
| 15h30 | *Laboratory visit* |
| 17h00 | *Welcoming speech* |
| 17h15 | KEYNOTE - ARACELI GARCIA NUNEZ - «GREEN AND SUSTAINABLE CHEMISTRY FOR POLYSACCHARIDES FUNCTIONALIZATION» |
| 17h45 | KEYNOTE - ROMAIN MILOTSKYI - «BEYOND CLASSICAL SOLVENTS: A COMPARATIVE LOOK AT UNCONVENTIONAL STRATEGIES FOR CELLULOSE ESTER SYNTHESIS» |
| 18h15 | *Wine and Cheese - Appetizer* |
| 20h15 | *End* |

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| | **TUESDAY 30 JUNE** | | | |
| | **CELLULOSE & CELLULOSE DERIVATIVES** | | | |
| 8h00 | ***Opening*** | | | |
| 8h45 | **KEYNOTE - JULIEN BRAS - «USE OF TWIN SCREW EXTRUSION TO PRODUCE MULTI-SCALE CELLULOSIC MATERIALS»** | | | |
| 9h25 | Production of microfibrillated cellulose for fibre-based packaging applications. | Single-step grafting of a thermoresponsive RAFT polymer from nanocellulose by radical decarboxylation | Fragility of cellulose derivatives: a case study on hydroxypropyl methyl cellulose | Production of Biodegradable Nanocellulose Foams as Sustainable Alternatives to Polystyrene |
| | *David Skuse, Fiberlean (United Kingdom)* | *Gianlucci Viddali, Monash University (Australia)* | *Arvindh Suresh, Chalmers (Sweden)* | *Dawood Bin Fazal, Monash University (Australia)* |
| 9h45 | Tailored Pretreatments for Energy-Efficient Fibrillation of Lignocellulosic Biomass | Tunable Interfaces in Cellulose Nanocrystals via Biobased Surface Adsorption | Functionalizations of cellulose derivatives by Passerini three component reaction: towards multifunctional films and coatings | Encapsulation of bioactive molecules in Pickering emulsions stabilized by bacterial cellulose produced by Kombucha fermentation of grape pomace |
| | *Beatriz Arsuffi, EMPA (Switzerland)* | *Isabelle Capron, INRAE (France)* | *Aurelia Charlot, IMP (France)* | *Nydia Ileana Guzman Barrera, LCPO - Université de Bordeaux (France)* |
| 10h05 | Innovative oxidizing system for the production of Micro-fibrillated cellulose (MFC) at the industrial scale | Development of an opening process for microfibrillated cellulose film aiming at improving its functionalization through a gas phase process | Toward scalable cellulose ester films preparation in a DBU–CO2 switchable solvent: from batch synthesis to reactive extrusion at high-solid content | Carnauba wax-modified cellulose nanofibrils as Pickering stabilizers for oil-in-water emulsions in bio-based postharvest coatings |
| | *Nathalie Marlin, LGP2 - UGA (France)* | *Thibault Michelon, Cermav (France)* | *Mohammed Aouay, LCPO - Université de Bordeaux (France)* | *Donia Farhart, CIMO, LA SusTEC, Instituto Politécnico de Bragança (Portugal), Organic Chemistry Laboratory, Faculty of Sciences of Sfax (Tunisia), Faculty of Sciences of Gafsa (Tunisia)* |
| 10h25 | ***Break*** | | | |
| 10h55 | **KEYNOTE - CARMEN FREIRE - "THE POTENTIAL OF BACTERIAL NANOCELLULOSE FOR THE DESIGN OF DIFFERENT BIOBASED NANOMATERIALS"** | | | |
| 11h35 | Mechanochemistry and Natural Eutectic Solvents: A Convergent Platform for the Sustainable Nanotransformation of Cellulose | Multilayer biobased packaging films from nanocelluloses from food industry by-products | Synchrotron-based circular dichroism of cellulose naocrystals suspensions: striking signal intensity from anisotropic optical properties | Reinforcement of cellulose nanocrystal extracted from abaca fiber for starch bioplastic film |
| | *Daniella Morgado, LGP2 - UGA (France)* | *Chloe Chevigny, INRAE (France)* | *Hugo Voisin, INRAE BIA (France)* | *Anniver Ryan Lapuz, Department of Science and Technology - Forest Products Research and Development Institute (Philippines)* |
| 11h55 | An electrifying approach to CNC production! | Effect of Particle Size and extraction techniques on cellulose recovery from Groundnut shell | Stability of nanocellulose made with oxalic acid | Development of fully bio-based composites |
| | *Alexandra Rousseau, UBC (Canada)* | *Santosh K, National Institute of Food Technology Entrepreneurship and Management – Thanjavur (India)* | *Beatriz Swensson, KTH (Sweden)* | *Juliette Lacroix, LGP2 - UGA (France)* |
| 12h15 | Multiscale Perspectives on Nanocellulose: Performance Insights | Valorization of Tender Coconut Husk into Functional Cellulose Derivatives for Intelligent Packaging Film Applications | Microstructural Evolution and Self-Assembly of Cellulose Nanocrystal Gels | Mechanochemical Synthesis and Characterization of Superabsorbent Polymers Derived from Paramylon and Zein |
| | *Pradip Kumar Maji, Indian Institute of Technology (India)* | *Spandana B.M. National Institute of Food Technology Entrepreneurship and Management – Thanjavur (India)* | *Somonika Virak, UGA (France)* | *Hao Wang, Kanazawa University (Japan)* |
| 12h35 | ***Lunch*** | | | |

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| 14h00 | **KEYNOTE - GILBERTO SIQUEIRA - "PROGRAMMING FUNCTIONALITY IN 3D-PRINTED NANOCELLULOSE MATERIALS"** | | | |
| 14h40 | Novel technologies for the production of low-cost microfibrillated cellulose | Regioselective cellulose esterification using twin screw extruder | Breaking the cellulose recalcitrance by catalytic reactive extrusion with citric acid | Elongational flow behaviour of cellulose nanofibrils gels during wet spinning: effect of the coagulation and washing |
| | *Pilar Albaladejo, ITENE (Spain)* | *Kenji Takahashi, Kanazawa University (Japan)* | *Abdul Hafeez, Kanazawa University (Japan)* | *Manfouo Tchoupmene, INSA Lyon (France)* |
| 15h00 | Valorization of lignin-first side streams for cellulose nanofibril production | Expanding the Bioplastic Toolbox: High-Performance Cellulose Esters via Sustainable Aromatic and Unsaturated Functionalization | Highly anionic cellulosic fibres : a new solution to increase paper / board strength properties. | Scale-up of cellulose nanofibrils film production by solvent casting: preliminary study |
| | *Buse Tatli, EPFL (Switzerland)* | *Luke Froment, Univ Lorraine (France)* | *Bruno Carré, CTP (France)* | *Sandra Magina, University of Coimbra (Portugal)* |
| 15h20 | CMC-Assisted, Energy-Efficient Production of Microfibrillated Cellulose | 3D-Printed Casings for Exotic Fruits from Bagasse-derived Cellulose and Derivatives | Interplay between functional group chemistry and water interactions in modified cellulose fibers | Exploring novel bio-based materials and their applications in conservation and restoration with a new interdisciplinary team: The case of European project BIOBASED2UC |
| | *Arnaud Benard, Fedrigoni (France)* | *Sinija VR, National Institute of Food Technology, Entrepreneurship and Management, Thanjavur (India)* | *Johanna Sjölund, KTH (Sweden)* | *Naceur Belgacem, LGP2 (France)* |
| 15h40 | ***Break*** | | | |
| 16h10 | **KEYNOTE - KRISTIN SYVERUD - "ENGINEERING WITH NANOCELLULOSE: STRUCTURE, PROPERTIES AND CROSS SECTOR OPPORTUNITIES"** | | | |
| 16h50 | Rotary Fed-Batch Bioprocessing for Enhanced Bacterial Cellulose Production: Toward Sustainable Media Based on Agrifood Residues | Exploring synergistic chemo-biological pretreatment of rice straw for enhanced carboxymethyl cellulose synthesis | Production of nanocelluloses and their utilization in different applications | A Meta-Analysis of Machine Learning Applications for Sustainable Lignocellulosic Biomass Valorization |
| | *Francesco Donsi, University of Salerno (Italy)* | *Santi Chuetor, King Mongkut's University of Technology North Bangkok (Thailand)* | *Arthur Valencony, FCBA (France)* | *Ronald Marquez, Girona (Spain)* |
| 17h10 | From Biofabrication to Preservation: Transparent Bacterial Cellulose for Cultural Heritage Preservation | | Développement de procédé de mise en œuvre par extrusion bivis et thermopressage de rafles de maïs pour la fabrication de panneaux denses biosourcés à performances mécaniques de type P2 | Sustainable Nanofibers from Food and Marine Waste for High-Performance Construction Materials |
| | *Ricardo Pinto, University of Coimbra (Portugal)* | | *Mahutondji Cédric Agbessi, INP Toulouse (France)* | *Mohamed Salim, Khalifa University (United Arab Emirates)* |
| 17h30 | Posters session - Cellulose and cellulose derivatives and New Advanced Materials | | | |
| 18h30 | ***End*** | | | |

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| | **WEDNESDAY 1 JULY** | | | |
| | **NEW ADVANCED MATERIALS** | | | |
| 8h00 | ***Opening*** | | | |
| 8h45 | **KEYNOTE - TATIANA BUDTOVA - «FROM CELLULOSE SOLUTIONS TO AEROGELS: CONTROLLING STRUCTURE AND PROPERTIES»** | | | |
| 9h25 | Harvesting nanosize magnesium hydroxide patricles on cellulose nanofiber and their applications | Dual functionalization strategy for nanocellulose-based antimicrobial surfaces | Evaluation of Phosphorylated Lignocellulosic Nanofibrils as Multifunctional Bio-Based Binders for Particleboard Manufacturing | Structurally Stable Cellulose Aerogels-based Phase Change Composites for Superior Thermal Energy Storage and Management |
| | *Yaman Boluk, University of Alberta (Canada)* | *Elisa Bianchi, University of Florence (Italy)* | *Abdelaziz Elattar, UM6P (Morocco)* | *Shakshi Bhardwaj, Indian Institute of Technology Roorkee (India)* |
| 9h45 | Hygromorphic nanocomposites elaborated by filtration and ultraviolet curing of cellulose nanocrystal suspensions | Bioinspired Cross-Oriented Multilayer Nanocellulose Films via Shear-Induced Alignment | On the use of dry processing methods to manufacture low environmental-footprint binderless biobased materials from lignocellulosic biomass | Nitric Oxide Releasing Cellulose Aerogel for Wound Healing Application |
| | *Frédéric Pignon, LRP (France)* | *Elizangela Hafemann Fragal, LRP (France)* | *Quentin Charlier, LGP2 (France)* | *Sumit Kumar, University of Georgia (USA)* |
| 10h05 | Applications of Nanocellulose in the Preservation of Cultural Heritage | Production of High-Performance of Continuous wet-spinning filaments from high solid content of cellulose nanofiber/alginate crosslinked hydrogel | Flexoelectricity as an electromechanical coupling in cellulose films | Design of pores in the cellulose aerogels by using small molecules and controlling the aggregation at the interface |
| | *Rémy Dreyfuss-Deseigne, Atelier Dreyfuss-Deseigne / Conservation-restauration des Arts et documents graphiques (France)* | *Ramzi Khiari, LGP2 (France)* | *Jasmine Jose, BIA INRAE Nantes (France)* | *Kathirvel Ganesan, DLR, Institute of Frontier Materials on Earth and in Space (Germany)* |
| 10h25 | ***Break*** | | | |
| 10h55 | **KEYNOTE - BLAISE TARDY - "EXPANDING POSSIBLE HORIZONS FOR THE ISOLATION AND USE OF CELLULOSICS"** | | | |
| 11h35 | Wood-based sustainable cellulose materials and applications | Functionalization of cellulose to produce new materials for packaging, textiles, and composite materials | Bio-based draining layers for menstrual pads obtained from lignocellulosic fibers through papermaking processes | Sustainable Nanocellulosic Bioinks for Biomedical Applications |
| | *Theo van de Ven, McGill University (Canada)* | *Fatme Awada, Université de Picardie Jules Verne (France)* | *Léa Caban, LGP2/3SR (France)* | *Seyed Mohammad Amin Ojagh, McGill University (Canada)* |
| 11h55 | Coating of cellulose textile yarn through a dip-coating process with carbonized flax shives for smart textile applications | Mechanical reinforcement of cellulose nanocrystals filled natural rubber processed by colloidal mixing | Linking Barrier Performance and Transport Pathways in Ethyl Cellulose-Coated Cellulose via Real-Time Impedance Spectroscopy | Freeze-Dried Bacterial Cellulose: A Substrate for Point-of-Care Antibiotic Susceptibility Testing |
| | *Theo Le Gagne, INRAE (France)* | *Matthieu Fumagalli, IMP / UCBL (France)* | *Alessia Barzotti, Alma Mater Studiorum-University of Bologna (Italy)* | *Sarita Chebiyyam, Indian Institute of Technology Hyderabad (IITH) (India)* |
| 12h15 | All-Cellulose Composites for Advanced Sustainable Textile Applications | Toward new biosourced plastic materials based-on mixed FACEs bearing linseed oil derivatives | Microstructural Control of Cellulose-Based Beads for Tunable Oxygen Release | A Charged Relationship Between Cellulose and Chitosan Derivatives |
| | *Maria C. Teixeiera, CICECO - Aveiro Institute of Materials / University of Aveiro (Portugal)* | *Nicolas Joly, Artois University (France)* | *Camila Gruber Chiaregato, University of Sao Paulo (Brazil)* | *Joice Kaschuk, Wageningen University (Netherlands)* |
| 12h35 | ***Lunch*** | | | |
| 14h00 | **KEYNOTE - TIFFANY ABITBOL - "MYCELIUM-BOUND NANOCOMPOSITES FOR PACKAGING"** | | | |

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| **14h40** | Renewable and biodegradable superabsorbent polymers (SAPs) | Architecturing paper sheets using 4D printing of starch gels: towards lighter papers for packaging | Unexpected thickness-driven volume expansion in tunicate cellulose nanocrystal-based multilayer films | From Renewable Fibres to Functional Interfaces: Porous Lyocell Membranes for Advanced Energy Applications |
| | *Audrey Drieux, LGP2 (France)* | *Clément Turpin, LGP2 (France)* | *Olivier Felix, CNRS - Insitut Charles Sadron (France)* | *José Miguel Matos, CeNTI (Portugal)* |
| **15h00** | From Forest and Vineyard Waste to Clean Water: Lignocellulosic Adsorbents for Iron and Manganese Removal | Native Nanocellulose Hydrogels with Tunable Rheology for Filament Fidelity in 3D Bioprinting | All-in-one natural biocomposite okara from soy waste as a promising barrier film | One Resource, Two Functions: Cellulose as Separator and Binder for Charge Storage |
| | *Daniela Morales Universidad Católica de la Santísima Concepción (Chile) and ONDESS (France)* | *Zinia Anjuman Ara, Monash University (Australia)* | *Anna Koptelova, EPFL (Switzerland)* | *Julian Selinger, Hochschule Campus Wien (Austria)* |
| **15h20** | Adsorption of Alizarin Dye using Cellulose Nanofibrils Extracted from Citrus aurantium Pruning Residues: Isotherm Modeling and Raman Mapping | Development of high-performance hybrid bio-films: structural and functional characterization of chitosan/S-CNC /AgNPs nanocomposites | Engineering Porous Bacterial Cellulose Cryogels by Tailored Processing and Sustainable Cross-Linking | A New Approach for Polysaccharide - Ionic Liquid Integration |
| | *Faycal Dergal, CRAPC (Algeria)* | *Ahmed Ramdani, UM6P (Morocco)* | *Edoardo Zonta, University of Trento (Italy)* | *Mohamed Abdelfadeel, Ain Shams University (Egypt) and ICGM (France)* |
| **15h40** | ***Break*** | | | |
| **16h10** | **KEYNOTE - PER LARSSON - "WIDENING OF THE PROPERTY SPACE AND THE PROCESSABILITY OF CELLULOSE FIBRES BY CHEMICAL MODIFICATION"** | | | |
| **16h50** | Cellulose-based adsorbents for CO2 capture | Programmable Corrugated Paper via Hygroexpansion: Toward Thermoforming-Free Corrugated Board | Pickering emulsions stabilized by phosphorylated lignin-cellulose nanofibrils | High-performance microfibrillated cellulose membranes: synergistic effects of sulfonation and SSA crosslinking for green fuel cells |
| | *Maïté Michaud, CERMAV (France)* | *Jérémy Viguier, LGP2 (France)* | *Houssine Sehaqui, UM6P (Morocco)* | *Laura Giraldo Isaza, SyMMES (France)* |
| **17h10** | Process-structure-properties relationships in fiber foams for biobased absorbent and retentive menstrual pads | Getting paper fibres into shape: An approach to form 3D-profiles made of lignocellulosic fibres with strand extrusion. | Mechanochemical functionalization of cellulose nanofibers for enhanced hydrophobicity targeting Pickering emulsion stabilization | Increasing Surface Charge Density: Towards All-Cellulose Proton-Conducting Membranes |
| | *Valentin Gemin, LGP2 (France)* | *Tom Schilling, PTS - Institut für Fasern und Papier gGmbH (Germany)* | *Lucas Shinti Iwamura, Centro de Investigação de Montanha, Instituto Politécnico de Bragança (Portugal)* | *Joao Cosas, CERMAV (France)* |
| **17h30** | Posters session - Packaging application and Sustainable End of life | | | |
| **18h30** | ***End*** | | | |
| **20h** | ***Gala dinner - CIEL Restaurant*** | | | |
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| | **THURSDAY 2 JULY** | | | |
| | **PACKAGING APPLICATION AND SUSTAINABLE END OF LIFE** | | | |
| 8h00 | ***Opening*** | | | |
| 8h45 | **KEYNOTE - YUTAKA TAKEUSHI - «FROM SUBSTITUTION TO REGENERATION: CELLULOSE PLASTICS AS PLATFORMS FOR MARINE ECOSYSTEM ENHANCEMENT»** | | | |
| **9h25** | Divergent Marine Biodegradation of Cellulose Acetate and Cellulose Propionate: Structure, Microbial Drivers, and Environmental Persistence | MFC in Moulded Fibre – Beyond Lightweighting | Cellulose 3D shaping through plasticization | Paper packaging heat sealing: a new approach |
| | *Wilasinee Kotcharoen, Kanazawa University (Japan)* | *Ben Bulson, Fiberlean Technologies Ltd (United Kingdom)* | *Emma Colombari, KTH (Sweden)* | *Océane Averty, LGP2 - UGA (France)* |
| **9h45** | Assessing plastic and celullose based food containers through Life Cycle Assessment (LCA): Adressing microplastic impacts | Advancing Pulp Injection Molding: Evaluation of Feeding and Dosing Technologies for Aqueous Fiber Suspensions | Development of barrier paper for a packaging recyclable and compliant with the regulations | Water Interactions in Cellulose Ester Films: Thin-Film Sensitivity and Macroscopic Barrier Behaviour |
| | *Insaf Mekni, EVEA (France)* | *Anika Fuhrmann, SKZ KFE (Germany)* | *Fleur Rol, CTP (France)* | *Asle Hammer Berget, NTNU (Norway)* |
| **10h05** | Development of a Marine-Biodegradable Plastic Substrate for Culturing the Stony Coral, Acropora hyacinthus | Injection molding of cellulose fibers to shape the future of 3D packaging | Impact of formulation on edible coatings for fruit preservation: Optimizing formulation for optimal adhesion and protection | CHROMAT-OH: An industrial PPWR compliant solution for flexible food packaging |
| | *Michelle Wong, Kanazawa University (Japan)* | *Emilien Fréville, Injectose (France)* | *Emma Pigneres, LGP2 - UGA (France)* | *Claire Monot, CTP (France)* |
| 10h25 | ***Break*** | | | |
| 10h55 | **KEYNOTE - FILOMENA BARREIRO - "ADVANCING CELLULOSE-BASED PACKAGING VIA PICKERING EMULSION TECHNOLOGY"** | | | |
| **11h35** | Effect of sizes and concentrations of cellulose acetate microplastics on bioaccumulation and reproductive characteristics in Daphnia magna | Multiscale Structural Evolution of Cellulose Fiber Networks in Three-Dimensional Dry Forming | Cellulose-based nanocomposite films reinforced with nano clay for enhanced packaging performance | Development and standardization of a new method for grease barrier characterization of fluorine-free paper and paperboard |
| | *Jutamas Phothakwanpracha, Kanazawa University (Japan)* | *Polina Naidjonoka,Yangi AB (Sweden)* | *Ashish Chahal, Aalto University (Finland)* | *Clementine Darpentigny, CTP (France)* |
| **11h55** | Regenerated cellulose films and coatings: characteristics, applications, upscaling | From fibers to rigid packaging: water–cellulose interactions during thermopressing | Curcumin-functionalized cellulose films via Pickering emulsions: a sustainable strategy for incorporating hydrophobic functionalities | Process Dependent Properties and Performance of PBAT-Jute Materials for Food Grain Storage Packaging |
| | *Hamid Ahadian, VTT (Finland)* | *Mathilde Bernard Catinat, LGP2 - UGA (France)* | *Heloise Almeida, Centro de Investigação de Montanha / Instituto Politécnico de Bragança (Portugal)* | *Janani N, Indian Institute of technology Madras (India)* |
| **12h15** | Transparent Paperboard: A Fully Circular and Marine-Biodegradable Material | Printing moulded cellulose with bio-based inks | Isolation, Optimization, and Application of Corncob-Derived Cellulose Nanocrystals for Enhanced Polyvinyl Alcohol Composite Films | |
| | *Noriyuki Isobe, JAMSTEC (Japan)* | *Anne Blayo, LGP2 - UGA (France)* | *Getahun Esubalew Demewoz, Federal University of Minas Gerais (UFMG) (Brazil)* | |
| 12h35 | ***Lunch*** | | | |
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| 14h00 | **ROUND TABLE + PRICE FOR POSTER** | | | |
| 15h00 | ***Break*** | | | |
| **15h20** | A Colorimetric Appraisal of Recycled Cellulosic Materials in Papermaking: Quality Insights for High-Variability Fibre Streams | Hygromechanical behavior of wet molded cellulose : A comprehensive experimental characterization | Scalable Oven-Dried Dialdehyde Cellulose Foams: A Biodegradable and Flame-Retardant Alternative for Packaging | Toward the design of architectured papers using the drying-induced shrinkage of CNC gel |
| | *Nazim Noor, DS SMITH (United Kingdom)* | *Thibaut Heremans, 3SR (France)* | *Prodyut Dhar, Indian Institute of Technology (BHU) Varanasi (India)* | *Antoine Naillon, 3RS (France)* |
| **15h40** | Upcycling of recycled kraft fibers - ozone treatment as a strategy to restore fiber-bonding ability | Towards Sustainable Packaging: Processing Strategies for Lightweight and Functional Cellulosic Materials | Upcycling of agro-industrial feedstocks into designable thermoplastics -Closing the loop for regenerative agricultural solutions | MicroFibrillated Cellulose barrier solution for food contact applications |
| | *Amelie Lefèvre, LGP2 - UGA (France)* | *Alexis Suchet, LGP2 - UGA (France)* | *Naoki Wada, Kanazawa University (Japan)* | *Hélène Cumi, CTP (France)* |
| **16h00** | Lignin and Hemicellulose Contributions to the Structural Integrity of Recycled Paper Porous Materials | Development of hydrophobic cellulose packaging: from laboratory scale to industrial processing | Solvolysis processes for flax fibres recycling in automotive composites | From Native Bacterial Cellulose to High Barrier Packaging for Dairy Products: A Simple Coating Strategy |
| | *Amanda Martins Jordao, IMT Mines Albi (France)* | *Angelica Giovagnoli, University of Bologna (Italy)* | *Baptiste Buet, INRAE (France)* | *Akhila Konala, Indian Institute of Technology Hyderabad (India)* |
| 16h20 | ***End of the conference*** | | | |

# AN EVENT ORGANISED WITH THE SUPPORT OF