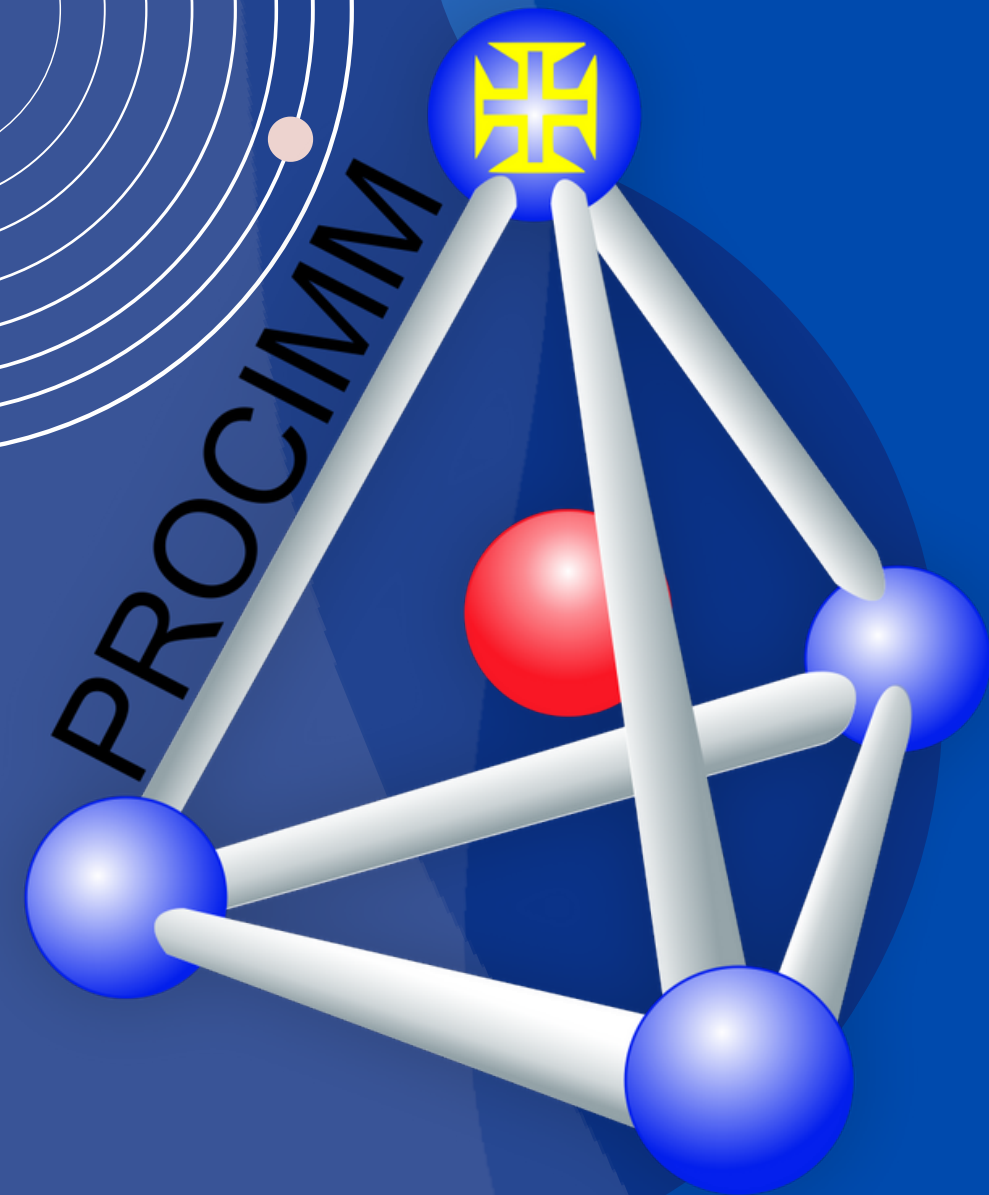


# II ISSCIMM INTERNATIONAL SYMPOSIUM ON SCIENCE, INNOVATION, AND MODELING IN MATERIALS



November 16th to  
December 3rd, 2021

# FEATURES

This event will bring together professionals and researchers from international and national institutions, to expose their lines of investigation and professional experiences;

The event will take place 100% remotely;

Free of charge;

Certificates will be issued to participants;

The official language of the event will be English. However, as our audience is mostly Brazilian students, the lectures will be given in Portuguese and French with simultaneous translation into Portuguese.

# ISSCIMM background

This will be the second edition of the event, held annually and with international coverage. We highlight the great success of the first edition of ISSCIMM, which was attended by 21 speakers from 14 educational and research institutions, 9 national and 5 international, with the participation of more than 800 spectators, and more than 300 certificates issued.

In this edition, we have the support of the Consulate General of France in Recife.





Ph.D. Eloisa Berbel-Manaia

*Université Paris-Saclay*

(Nov 16th, 9 am) Use of quantum dots and nanoparticles in biodistribution studies

Utilisation de points quantiques et de nanoparticules dans les études de biodistribution\*



Ph.D. Driss Lahem

*Materia Nova/Université du Mons*

(Nov 24th, 10 am) Active coatings for removal of indoor volatile organic compounds

Revêtements actifs pour l'élimination des composés organiques volatils à l'intérieur\*



Msc. Marcello Martins

*Director of the company Projemart Serviços de Engenharia*

(Nov 24th, 6 pm) Structural diagnostics through NDT non-destructive tests

# CONFIRMED SPEAKERS

\*Lecture in French with simultaneous translation into Portuguese



Ph.D. Erich David Rodriguez Martinez

*Universidade Federal de Santa Maria*

(Nov 25th, 6 pm) Can geopolymers be a  
substitute for Portland cement?

# CONFIRMED SPEAKERS



Dr. Afonso Rangel Garcez de Azevedo

*Universidade Estadual do Norte Fluminense Darcy Ribeiro*

(Nov 26th, 6 pm) Potential for application of solid waste  
in building materials





Ph.D. Rozenn Le Parc

*Université de Montpellier*

(Nov 29th, 5 pm) The self structuration of matériaux studied by vibrational spectroscopy  
L'auto structuration des matériaux étudiée par spectroscopie vibrationnelle\*



Dr. Paulo Ricardo de Matos

*Universidade Federal de Santa Maria*

(Dec 1st, 6 pm) X-ray diffraction applied to  
cementitious materials



Ph.D. Sergey Philippov

*Saint Petersburg State Polytechnic University*

(Dec 3rd, 2 pm) Fractal and multifractal analysis

# CONFIRMED SPEAKERS

\*Lecture in French with simultaneous translation into Portuguese

# SPEAKER

## Ph.D. Eloisa Berbel-Manaia



Graduated in Industrial Pharmacy from the State University of Londrina, Master's in Pharmaceutical Sciences from the Júlio de Mesquita Filho São Paulo State University and Ph.D. in Pharmaceutical Sciences in co-supervision between the Júlio de Mesquita Filho São Paulo State University and the Université Paris-Saclay (Institut Galien). She has experience in Cosmetics with an emphasis on sunscreen, controlled drug release systems, synthesis of nanoparticles and nanomaterials.

# SPEAKER

Ph.D. Driss Lahem



PhD in organic chemistry from the University of Mons-Belgium (UMONS) in 1999. Since 2000, he has been working at Materia Nova ([www.materianova.be](http://www.materianova.be)), a materials R&D center in Mons (Belgium). He is scientific manager of research activities in the field of active coatings. His main research areas are the development and validation of active materials, in particular for the chemical detection and degradation of pollutants. He is also a co-founder of the company B-Sens ([www.b-sens.be](http://www.b-sens.be)) which develops and manufactures sensor solutions based on fiber optic and semiconductor technologies.





# SPEAKER

Msc. Marcello Martins

Civil Engineer graduated from UFRJ in 1985 with a master's degree in Computer Simulation from UERJ. He is the director of Projemart Engenharia, a company operating in Brazil and abroad in the field of tests and diagnostics, having as client large companies in the telecommunications, cement and port works sectors.

# SPEAKER

## Ph.D. Erich David Rodriguez Martinez

Adjunct Professor at the Federal University of Santa Maria (UFSM) in the Department of Structures and Civil Construction (DECC). He has a postdoctoral degree from the Federal University of Rio Grande do Sul, UFRGS (Porto Alegre, Brazil), a doctorate in Engineering from the Polytechnic University of Valencia (UPV), Spain (convalidated by UFRGS), a master's degree in concrete engineering (Spain) and a master's degree in Materials Engineering (Colombia). Over the last few years of experience as a researcher he has been involved in the detailed evaluation of the structure of cements and alternative binders, as well as the correlation between structure and performance that these materials can present.



# SPEAKER

## Dr. Afonso Rangel Garcez de Azevedo



Prof. Afonso holds a master's and doctoral degree in Civil Engineering from the State University of Norte Fluminense Darcy Ribeiro, where he developed research in the area of solid waste reuse for the development of alternative construction materials, such as activated mortars, ceramics and alkalis, and sustainability indicators. He did a post-doctoral internship in Engineering and Materials Science at PPGECM/UENF. He is currently an Associate Professor at the State University of Norte Fluminense Darcy Ribeiro and works as a collaborator at the Fluminense Federal University (UFF) in the Postgraduate Program in Biosystems Engineering (PGEB), where he develops research in the area of environmental management.

# SPEAKER

Ph.D. Rozenn Le Parc

Doctorate in Physics from the University of Lyon and Master in Physics from the University of Rennes. Professor and researcher at the Charles Coulomb Laboratory at the University of Montpellier. She has 59 published scientific articles. Research keywords: Structure, network, vibrations, pressure, intermolecular interactions, containment, self-organization, glasses, hybrids, proteins, nanostructure, Raman, infrared, INS.





# SPEAKER

## Dr. Paulo Ricardo de Matos



Adjunct Professor at the Universidade Federal de Santa Maria (UFSM), Cachoeira do Sul Campus. Graduated (2013), Ph.D. (2019), and post-doctoral (2021) in Civil Engineering from the Federal University of Santa Catarina (UFSC). He researches in the area of Civil Construction Materials, especially eco-efficient materials. He is currently interested in the rheological evaluation and hydration of cement pastes by X-ray diffraction.

# SPEAKER

Ph.D. Sergey Philippov



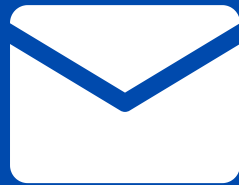
Graduated in Metal Physics and Materials Science, Master in Physics, and Ph.D. in Computational Modeling. He is currently a professor at the Federal Polytechnic University of St. Petersburg and a professor at the Mining University of St. Petersburg, Russia. He works mainly on the following subjects: X-ray diffractometry, EBSD method, electron microscopy and tensometry by X-ray diffraction.

# Registration by Sympla

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**QUESTIONS?  
CONTACT US**



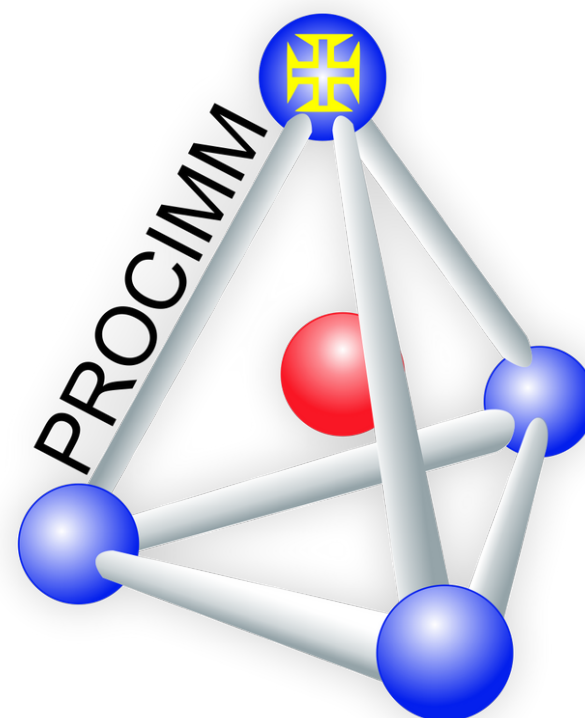
# ABOUT US

The Graduate Program in Science, Innovation, and Modeling in Materials (PROCIMM) at the State University of Santa Cruz (UESC) existed since 2010 and is structured with an Area of Concentration, called Science and Technology of Materials.

We have two main research lines: i) **Synthesis and Characterization of Materials** and ii) **Modeling and Simulation in Materials**. The first line aims to characterize and modify materials, improving their physical, chemical, electrical, optical, and mechanical properties. The second seeks to develop and apply mathematical models, numerical methods, and computational techniques to solve problems related to the characterization, development, and applications of materials.



# ACKNOWLEDGEMENTS



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