

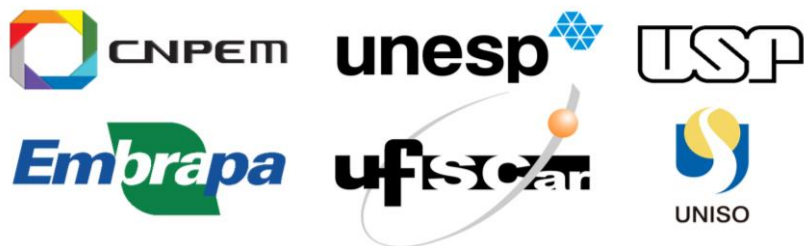
PRELIMINARY PROGRAM



SPSAS
NanoAgri&Enviro

são paulo school of advanced
science on nanotechnology,
Agriculture & Environment

3rd to 15th of July 2023
campinas, SP - Brazil



01/02/2023

Preliminary Program

Day 1: 03/07/2023 (Monday)

08:30 – 09:30	Registration at LNNano	Executive secretary
09:30 - 10:00	Welcoming and General comments	Prof. Rodrigo Capaz (LNNano Director) and Committee Members
10:00 – 11:00	FAPESP Talk	To be confirmed
11:00 – 11:30	<i>Coffee Break</i>	
11:30 – 13:00	Nanotechnology, Innovation and Sustainability	Prof. Mark V. Wiesner (Duke University, USA)
13:00 – 14:30	Lunch	
14:30 – 16:00	Understanding the environmental implications of nanotechnology	Prof. Mark V. Wiesner (Duke University, USA)
16:00 – 16:30	<i>Coffee Break</i>	
16:30 – 18:00	Ecosystem for nanotechnology research in Sao Paulo	Dr. Diego S. T. Martinez (LNNano/CNPEM, Brazil)
18:00 - 21:00	Social activity (Music, food & drinks)	All participants

Day 2: 04/07/2023 (Tuesday)

09:00 – 10:30	Introduction to nanomaterials and colloids chemistry	Prof. Koiti Araki (University of Sao Paulo, Brazil)
10:30 – 11:00	<i>Coffee Break</i>	
11:00 – 12:00	Characterization of Nanomaterials	Prof. Koiti Araki (University of São Paulo, Brazil)
12:00 – 13:00	Company Talk 1	To be confirmed
13:00 – 14:30	Lunch	
14:30 – 16:00	Principles of Single-particle ICP-MS and its applications in complex systems	Prof. Frank von der Kammer (University of Vienna, Austria)
16:00 – 16:30	<i>Coffee Break</i>	
16:30 – 17:30	Principles of Single-particle ICP-MS and its applications in complex systems	Prof. Frank von der Kammer (University of Vienna, Austria)
17:30 – 19:00	Visiting LNNano/CNPEM (Fabrication, Microscopy and Spectroscopy Facilities)	Researchers and Specialists of LNNano/CNPEM

Day 3: 05/07/2023 (Wednesday)

09:00 – 10:30	Nanotechnology for Agribusiness innovation	Dr. Caue Ribeiro (LNNA/EMBRAPA, Brazil)
10:30 – 11:00	<i>Coffee Break</i>	
11:00 – 12:00	Developing nanomaterials for solar energy, catalysis, and remediation	Dr. Caue Ribeiro (LNNA/EMBRAPA, Brazil)
12:00 – 13:00	Company Talk 2	To be confirmed
13:00 – 14:30	Lunch	
14:30 – 16:00	Biological and environmental effects of nanoparticles	Prof. Gregory V. Lowry (Carnegie Mellon University, USA).
16:00 – 16:30	<i>Coffee Break</i>	
16:30 – 17:30	Biological and environmental effects of nanoparticles	Prof. Gregory V. Lowry (Carnegie Mellon University, USA).
17:00 – 19:00	Visiting LNNano/CNPEM (Nanobiotechnology, Environmental Nano and Nanosafety)	Researchers and Specialists of LNNano/CNPEM

Day 4: 06/07/2023 (Thursday) - Theoretical/Hands-on Activity: A Group visiting ICTS/UNESP and UNISO, Sorocaba & B Group visiting CENA/USP, Piracicaba**A Group**

Morning	Strategies for development of nanopesticides	Prof. Leonardo F. Fraceto (ICTS/UNESP, Brazil)
	<i>Hands-on:</i> Preparation and characterization of nanopesticides	Prof. Leonardo F. Fraceto and Team (ICTS/UNESP, Brazil)
13:00 – 14:30	Lunch	
Afternoon	Visiting UNISO Labs and Facilities	Researchers and Specialists of UNISO

B Group

Morning	Nano Fertilizers - Effects on plant nutrition and growth	Prof. Hudson W. P. Carvalho (CENA/USP, Brazil)
	<i>Hands-on</i> : Controlled uptake of Nano Fertilizers	Prof. Hudson W. P. Carvalho and Team (CENA/USP, Brazil)
13:00 – 14:30	Lunch	
Afternoon	Visiting CENA Laboratories	Researchers and Specialists of CENA/USP
	Visiting ESALQ Soil Science & Phytopathology Departments	Researchers and Specialists of ESALQ/USP

Day 5: 07/07/2023 (Friday) - Theoretical/Hands-on Activity: A Group visiting CENA/USP, Piracicaba & B Group visiting ICTS/UNESP and UNISO, Sorocaba

A Group

Morning	Nano Fertilizers - Effects on plant nutrition and growth	Prof. Hudson W. P. Carvalho (CENA/USP, Brazil)
	<i>Hands-on</i> : Controlled uptake of Nano Fertilizers	Prof. Hudson W. P. Carvalho and Team (CENA/USP, Brazil)
13:00 – 14:30	Lunch	
Afternoon	Visiting CENA Laboratories	Researchers and Specialists of CENA/USP
	Visiting ESALQ Soil Science & Phytopathology	Researchers and Specialists of ESALQ/USP

B Group

Morning	Strategies for development of nanopesticides	Prof. Leonardo F. Fraceto (ICTS/UNESP, Brazil)
	<i>Hands-on:</i> Preparation and characterization of nanopesticides	Prof. Leonardo F. Fraceto and Team (ICTS/UNESP, Brazil)
13:00 – 14:30	Lunch	
Afternoon	Visiting UNISO Labs and Facilities	Researchers and Specialists of UNISO

Day 6: 08/07/2023 (Saturday)

09:00 – 10:30	Soil geochemistry and the fate of nanomaterials	Prof. Melanie Auffan (CEREGE/CNRS, France)
10:30 – 11:00	<i>Coffee Break</i>	
11:00 – 13:00	Mesocosms: from theory to practical experience	Prof. Melanie Auffan (CEREGE/CNRS, France)
13:00 – 14:30	Lunch	
14:30 – 16:00	Synchrotron light for nano-agri-environmental research	Prof. Hudson W. P. Carvalho (CENA/USP, Brazil)
16:00 – 16:30	<i>Coffee Break</i>	
16:30 – 18:30	Visiting LNLS/Sirius and Carnaúba beamline	Researchers and Specialists of LNLS/CNPEM

Day 7: 09/07/2023 (Sunday) - Free Day - Visiting São Paulo city (Cultural activities & Tourism)

Day 8: 10/07/2023 (Monday)

09:00 – 10:30	Introduction to Ecotoxicology and Environmental Safety	Profa. Marisa N. Fernandes (DCF/UFSCar, Brazil)
10:30 – 11:00	<i>Coffee Break</i>	
11:00 – 12:00	Biochemical and Physiological effects of nanomaterials on fishes	Profa. Marisa N. Fernandes (DCF/UFSCar, Brazil)
12:00 – 13:00	Company Talk 3	To be confirmed
13:00 – 14:30	Lunch	
14:30 – 16:00	Visiting LNBio/CNPEM (Bioimaging and Mass Spectrometry Facilities)	Researchers and Specialists of LNBio/CNPEM
16:00 – 16:30	<i>Coffee Break</i>	
16:30 – 18:00	Visiting LNBR/CNPEM (Molecular Biotechnology Facilities)	Researchers and Specialists of LNBR/CNPEM

Day 09: 11/07/2023 (Tuesday) - A Group visiting EMBRAPA & B Group visiting UFSCar, São Carlos**A Group**

Morning	<i>Hands-on:</i> Decontamination of waters containing pesticides using nanocatalysts	Dr. Caue Ribeiro and Team (LNNA/EMBRAPA, Brazil)
13:00 – 14:30	Lunch	
Afternoon	Visiting UFSCar and Nano-Bio-Environmental Labs	Prof. Marisa N. Fernandes and Team (DCF/UFSCar, Brazil)

B Group

Morning	Visiting UFSCar and Nano-Bio-Environmental Labs	Prof. Marisa N. Fernandes and Team (DCF/UFSCar, Brazil)
13:00 – 14:30	Lunch	
Afternoon	<i>Hands-on</i> : Decontamination of waters containing pesticides using nanocatalysts	Dr. Caue Ribeiro and Team (LNNA/EMBRAPA, Brazil)

Day 10: 12/07/2023 (Wednesday)

09:00 – 10:30	Nanomaterial biomolecular coronas in Nanosafety Research	Prof. Iseult Lynch (University of Birmingham, UK)
10:30 – 11:00	<i>Coffee Break</i>	
11:00 – 13:00	Nano Regulation – International harmonization, Challenges and Perspectives	Prof. Iseult Lynch (University of Birmingham, UK)
13:00 – 14:30	Lunch	
Afternoon	Free afternoon Suggestion: City Tour (Taquaral Park)	All participants

Day 11: 13/07/2023 (Thursday)

09:00 – 10:30	Introduction to Nanoinformatics and Knowledge Databases	Dr. Antreas Afantitis (NovaMechanics, Cyprus)
10:30 – 11:00	<i>Coffee Break</i>	
11:00 – 12:00	Nanoinformatics Approaches for Safe and Sustainable by Design Nanomaterials	Dr. Antreas Afantitis (NovaMechanics, Cyprus)
11:00 – 13:00	Company Talk 4	To be confirmed
13:00 – 14:30	Lunch	
Afternoon	Free afternoon Suggestion: Plantarum Botanic Garden	All participants

Day 12: 14/07/2023 (Friday) - Oral presentations Day - Discussions with Undergraduate and Ph.D. students

09:00 – 09:20	Presentation 1	Moderator: Prof. Leonardo F. Fraceto
09:20 – 09:40	Presentation 2	
09:40 – 10:00	Presentation 3	
10:00 – 10:20	Presentation 4	
10:20 – 10:40	Presentation 5	
10:40 – 11:00	<i>Coffee Break</i>	
11:00 – 11:20	Presentation 6	Moderator: Prof. Hudson W. P. Carvalho
11:20 – 11:40	Presentation 7	
12:00 – 12:20	Presentation 8	
12:20 – 12:40	Presentation 9	
12:40 – 13:00	Presentation 10	
13:00 – 14:30	Lunch	
14:30 – 17:00	Poster Section	All participants
17:00 – 20:00	Social activity (happy hour)	All participants

Day 13: 15/07/2023 (Saturday)

09:00 – 10:30	Nanotechnology, Agriculture & Environment: Opportunities for Ph.D. students and Postdocs in Sao Paulo	Leonardo Fraceto, Caue Ribeiro, Hudson Carvalho, Koiti Araki, Marisa Fernandes and Diego Martinez (Group presentation and discussions)
10:30 – 11:00	<i>Coffee Break</i>	
11:00 – 11:30	Evaluation Meeting	Committee Members and Executive Secretary
11:30 – 12:00	Best Oral and Poster presentations (Awards)	Committee Members
12:00 - 13:00	Closing	Committee Members and Prof. Rodrigo B. Capaz (LNNano Director)
13:00 - 14:30	Social activity (Lunch)	All participants