

Project Symposium
Period 3
Thursday, 1 February 2024

Session 1: 9:00 - 10:30

Room: B0.001

Moderator: Giuditta Perversi
Timer: Leon Claessens

- 314. Paint Layer Stratigraphic and Pigment Characterisation via Cross-Sections.
- 214. Assessing State of the Art (Generative) Retrosynthesis
- 222. Guide of Mauritian Wildlife: Tenrec and Musk Shrew skeletal anatomy
- 320. Investigating Calcium Oxalate Crystal Formation and Raphide Morphology.

Room: B0.003

Moderator: Linnea van Griethuijsen
Timer: Phil Klahs

- 219. Animal migration studies – a systematic review
- 220. Test trial a neurobiology skills course
- 306. Building a general database using R to catalogue scientific images and metadata
- 230. Ro-Botany: Improving upon an automated greenhouse

Room: B0.010

Moderator: Erik Steen Redeker
Timer: Stefan Jongen

- 227. Development of a CRISPR-CAS9 gene editing system
- 317. Stopping Methanogenesis Using a Genetically Engineered Yeast Strain
- 211. Biases in ChatGPT
- 228. ChatGPT vs AI Detectors: The Battle Royale of Academia

Room: B0.014

Moderator: Jessica Nelson
Timer: Chad Ellington

- 215. Identifying astronomical star cluster membership
- 216. Cell-phone spectrometry
- 213. Designing a self-guided lichen tour in Tapijn
- 322. Computational Biology and Senescence: Metabolic Reactions in Cellular Aging Pathways

Session 2: 10:45 - 12:15

Room: B0.001

Moderator: Burgert Blom

Timer: May Lee

- 204. Synthesis of [Ru,Sn] μ_2 bridged systems as new anticancer agents
- 205. Synthesis and Characterization of Novel Bimetallic Osmium Complexes as Potential Anticancer Agents
- 201. The Impact of Large Language Models on Problem Based Learning
- 316. Adaptive beam formation for 3D ultrasound sensing

Room: B0.003

Moderator: John Sloggett

Timer: Kyle Jazwa

- 319. Does Harmonia Axyridis incorporate intraguild prey alkaloids in reflex blood?
- 210. Evolutionary Ecology of Parasites: Communicating Science One Field at a Time.
- 301. Radiation risk mitigation strategies for Mars
- 203. Maastricht Archaeology I

Room: B0.010

Moderator: David Cortens

Timer: Erik Steen Redeker

- 311. Filling the cracks! Using Synthetic Biology to create calcite-producing bacteria for limestone restoration.
- 312. Developing E. coli to inhibit methanogenesis in cows using Synthetic Biology
- 305. Blueprints for Embryonic Development: Curating metabolic pathways for optimizing IVF procedures
- 315. Connecting projects of connecting cells: Continuing curation of metabolic pathways of fibroblasts

Room: B0.014

Moderator: Lorenzo Reverberi

Timer: Chris Bahn

- 223. The impact of basic research
- 308. Designing an electrode for a neural interface
- 229. Creating Tools for Balancing Chemical Equations Using Matrices/Linear Algebra
- 302. One curve to rule them all: cycloids, brachistochrones, and tautochrones. Adding constraints, friction, and loops.

Session 3: 12:45 - 14:15

Room: B0.001

Moderator: Chad Ellington

Timer: Basile Roufosse

330. Metal Organic Polymers: Synthesis and Characterization of CCPs

318. Synthesis and Characterization of Novel Bimetallic Ru(μ -dppm)Ni Complexes for Potential Anticancer Applications

310. CosmicWatch – Building/using an inexpensive muon detector

324. Evaluating the shell model in nuclear astrophysical processes

Room: B0.003

Moderator: Chris Pawley

Timer: George Mesher

206. Creating a resource for new tutors at Maastricht Science Program

207. Creating a 3D model of an articulated pinniped skeleton to **investigate** functional morphology

212. Gamification for Curriculum Orientation and Planning

226. Plastic degradation using Synthetic Biology

Room: B0.010

Moderator: Phil Klahs

Timer: Giuditta Perversi

217. Analysis of herb garden feasibility in a partially-walled, urban microhabitat

218. Taxonomic verification of trees in the future Stadspark Arboretum

209. Re-mating behaviour of the 7-spot ladybird

323. Chemobrionics: potential of chemical gardens as models for complex self-assembly

Room: B0.014

Moderator: Leon Claessens

Timer: Jessica Nelson

309. Measuring the information flow in a simulated neural interface

225. Review: Neural interfaces – state of the art

327. Ecoacoustics and nitrogen level measurements of grassland soil fauna diversity

313. Mosasaur dental anatomy of the De Heer collection

Session 4: 14:30 - 15:45

Room: B0.001

Moderator: Kyle Jazwa

Timer: Hanna Dillien

303. Experimental Archaeology I

304. Mapping the Via Belgica III: Maastricht to Waremmme

328. Synthesis and evaluation of polymeric materials for sulfamethoxazole extraction

Room: B0.003

Moderator: Roy Erkens

Timer: Jesse Hennekam

208. Base analyses of Holocene and Pleistocene fossil deposits near Maastricht (Henkeput and Belvédère)

224. 3D Scanning the plant family Annonaceae

326. 3D Scanning the MSP Bone Catalog and Creating a Virtual Museum

Room: B0.010

Moderator: Erik Steen Redeker

Timer: Katja Jimenez Monroy

329. Establishment and Characterization of Cancer Cell Lines for Cancer Research within MSP

307. Synthesis and characterization of DNA-fullerene molecular wires

325. Bioelectrically-Coupled Metabolic Network: The Hidden Biophysics of the Heart

Room: B0.014

Moderator: Chris Pawley

Timer: Lorenzo Reverberi

202. "Shaky Science": designing and building a seismograph

321. Exploring LHCb Data for Matter-Antimatter Asymmetry

331. Reformulating the Fourth-Generation Jarlskog Invariant