

Breath Research Interactions and Development via Guidance and Exchanges



ULMNP group of IESL-FORTH is pleased to present the following seminar and courses in the framework of the [EU BRIDGE project](#). We welcome you to attend:

Day	Date	Time	FORTH's Room	Presenter	Course Title
Wednesday	4/9	12:00 – 13:30	Vassilios Dougalis - KEEK building	Dr Roman Krahne	IESL Seminar: Emission and vibrational properties of two-dimensional layered metal-halide perovskites
Friday	6/9	10:00 – 12:00	Costas Fotakis – FORTH building	Dr Roman Krahne	Course: Scientific Communication Skills
Monday	9/9	10:00 – 12:00	Vassilios Dougalis - KEEK building	Dr Roman Krahne	Course: Scientific Communication Skills

Note:
All the courses will begin 10 minutes after the scheduled time.

[Dr Roman Krahne \(IIT\)](#) – Senior Researcher Tenured - Principal Investigator, Leader of the Optoelectronics Research Line at IIT



Seminar: Emission and vibrational properties of two-dimensional layered metal-halide perovskites

Abstract: Metal-halide perovskite materials demonstrated extraordinary performance in solar cells and light emission in recent years, and their layered low-dimensional counterparts promise even greater tunability due to the huge variety of molecules available for the organic phase. Single octahedra-layer structures act as two-dimensional quantum wells, showing strong quantum confinement and large exciton binding energies. The band gap and light emission can be designed by the choice of the organic cations. In this talk I will discuss our recent results on the emission tuning via choice of the organic cations, and the exciton phonon coupling, with a focus on angle-resolved polarized Raman and photoluminescence spectroscopy to get insights into the directionality of phonons and emission polarization.

Course: Scientific Communication Skills

Description: In this 4-h course the students will learn how to efficiently report scientific results. The focus will be on clarity of the presentation that enables easy and intuitive understanding of the findings and outcomes. The topics comprise reports, manuscript writing, and conference presentations.

Content:

- Reporting scientific results
- Preparing conference and seminar talks
- Public speaking
- Figures: the key to reporting results
- Writing the manuscript: story line, structure and layout



This research project has received funding from the EU's Horizon Europe framework programme for research and innovation under grant agreement BRIDGE (n. 101079421 from 01/10/2022 – 30/9/2025)

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Please check for any updates the webpage: <https://euproject-bridge.eu> and our social media: [Twitter](#), [Instagram](#), [Facebook](#), [LinkedIn](#). You may contact at bridge@iesl.forth.gr



Rooms of the seminar and courses:

"Costas Fotakis" Meeting Room

FORTH Main Building



"Vassilios Dougalis" Meeting

Room/Auditorium

"KEEK" Building



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