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ARS 9

Featuring
Dr. Mikaël Le Roch

A Deep Dive into Organometallic
Chemistry & Research Insights

MAGAZINE

The Official Scientific Review of X Foundation

Serendipity, luck, and teamwork: three words, three keys to progress in research. Dr. Mikaël Le Roch guided us through these fundamental principles, showing that openness to unexpected discoveries, the ability to recognize valuable opportunities, and the importance of a collaborative environment are the driving forces behind scientific success.

RE/CONNECT With Dr. Mikaël Le Roch

On January 25, 2025, the ninth edition of ARS took place in the Arène Hall at Sorbonne University, marking another significant moment of scientific exchange and strategic discussions for X Foundation. This session was highlighted by a talk from Dr. Mikaël Le Roch conducted his PhD research on organometallic chemistry, who shared his experience and key advice for succeeding in the field of research.

An Inspiring Talk by Dr. Mikaël Le Roch

After earning a degree in chemistry at Sorbonne University, Dr. Le Roch spent a semester at the University of Montreal during his master's studies, followed by an internship, before pursuing a PhD focused on the synthesis of air- and moisture-sensitive organometallic compounds, such as bimetallic zinc complexes. His work required advanced techniques, including glove boxes and vacuum Schlenk tubes, to handle these highly reactive substances under controlled conditions.



ARS 9: A New Dynamic for Our Projects

This session also served as an opportunity to welcome members who were absent from ARS 8, integrating them into ongoing research projects. The goal was to strengthen team cohesion and ensure a fair distribution of responsibilities among all participants.

CHEMIX TEAM



During his talk, he emphasized three essential pillars for success in research: serendipity, the ability to embrace unexpected discoveries; luck, recognizing and seizing opportunities as they arise; and a strong team, working with a competent supervisor and a collaborative research group. These principles deeply resonated with the audience, highlighting the importance of adaptability, intuition, and teamwork in building a successful scientific career.

With Dr. Le Roch's guidance, each team made progress on its research topic, refining hypotheses and structuring its areas of study. The ongoing research topics explored within ARS 9 included:

- Team Alpha: Prediction of chemical shifts based on real charge calculations.
- Team Beta: Modeling activity coefficients in complex electrolyte solutions.
- Team Gamma: Retrosynthesis and optimization of synthesis conditions.

With this edition, Fondation X reaffirms its commitment to fostering collaborative and innovative research, supporting young scientists, and encouraging scientific exchange.

