

Science Frontier C: Climate Science and Decarbonization

Dr. David S. Rivera Rocabado Osaka Metropolitan University

Date & Time:

April 15, 10:45~12:15

April 22, 10:45~12:15

May 13, 10:45~12:15

May 20, 10:45~12:15

Venue: G Building, Room 310, Department of Chemistry
Sugimoto Campus

This lecture series explores climate change from scientific mechanism to practical response. We begin with the greenhouse effect, key greenhouse gases, global temperature trends, and how climate data are measured and validated. We then examine climate impacts, risk distribution, and international frameworks such as the Kyoto Protocol, Paris Agreement, and IPCC goals. The course next focuses on Japan's carbon-neutrality strategy and national decarbonization policies. Finally, we discuss sectoral pathways in electricity, transport, heavy industry, hydrogen, ammonia, steel, cement, and grid modernization.

