

SUMMER SCHOOL

New Generation Battery Technologies: From Materials Design to Cell Characterization

Gebze Technical University | 22 – 25 June 2026

Day 1 – Na-ion Batteries & Fundamentals

Monday, 22 June 2026 | 08:20 Registration | 08:50–09:00 Welcome and Introduction by Rezan Demir-Cakan

Time	Session / Topic	Lecturer / Institution
09:00–10:30	Fundamentals of Battery Technologies	Yang Yang – Humboldt University of Berlin
10:30–11:00	<i>Coffee Break</i>	—
11:00–12:30	Na-ion Batteries I – Anode	Da Huo – University of Picardie Jules Verne (LRCS)
12:30–14:00	<i>Lunch</i>	—
14:00–15:30	Na-ion Batteries II – Cathode & Electrolyte	Yang Yang – Humboldt University of Berlin
15:30–16:00	<i>Coffee Break</i>	—
16:00–17:30	Characterization Techniques – Raman	Da Huo – University of Picardie Jules Verne (LRCS)

Day 2 – Solid-State Batteries & XRD Hands-on

Tuesday, 23 June 2026

Time	Session / Topic	Lecturer / Institution
09:00–10:30	Solid-State Batteries	Stefano Tagliaferri – Humboldt University of Berlin
10:30–11:00	<i>Coffee Break</i>	—
11:00–12:30	Poster Presentations	All Participants
12:30–14:00	<i>Lunch</i>	—
14:00–17:30	Extended Workshop: Crystallography & XRD Refinement	Mikkel Juelsholt – Humboldt University of Berlin

Day 3 – Li-S Batteries & Advanced Characterization

Wednesday, 24 June 2026

Time	Session / Topic	Lecturer / Institution
09:00–10:30	Li-S Batteries	Rezan Demir-Cakan – Gebze Technical University
10:30–11:00	<i>Coffee Break</i>	—
11:00–12:30	Poster Presentations	All Participants
12:30–14:00	<i>Lunch</i>	—
14:00–15:30	Introduction to Operando Methods	Yanan Sun – Humboldt University of Berlin
15:30–16:00	<i>Coffee Break</i>	—
16:00–17:30	Characterization – Advanced Imaging	Carine Davoisne – University of Picardie Jules Verne (LRCS)
17:30–18:00	Lab Tour	Selin Sariyer & Tutku Mutlu – Gebze Technical University

Day 4 – Electrochemical Characterization & Data Analysis

Thursday, 25 June 2026

Time	Session / Topic	Lecturer / Institution
09:00–10:30	Electrochemical Characterization	Mathieu Morcrette – Tiamat Energy
10:30–11:00	<i>Coffee Break</i>	—
11:00–12:30	Measurement Errors & Best Practices	Mathieu Morcrette – Tiamat Energy
12:30–14:00	<i>Lunch</i>	—
14:00–16:30	Extended Workshop: Data Analysis & Interpretation	Mathieu Morcrette – Tiamat Energy
16:30–17:00	Open discussion: common pitfalls in battery research	Rezan Demir-Cakan – Gebze Technical University
17:00–17:30	Best Poster Awards & Closing	Rezan Demir-Cakan – Gebze Technical University