

International RD20 Summer School



Creating an annual International RD20 Summer School was an important recommendation from the 2019 RD20 Leaders Statement that codified the urgency to significantly increase international collaboration to accelerate research and development (R&D) and to enable clean energy transformation. The 4th International Summer School will be held in Ben Guerir (close de Marrakech), Morocco on May 17–23, 2026, providing an opportunity for RD20 early career researchers to come together with senior leaders and globally recognized keynote speakers to learn, discuss, and establish relationships for future collaboration.

RD20 Summer School Agenda ↓



Sunday, May 17: Arrival and Welcome



12:00 – 20:00

Summer School housing available for
check-in (Residential areas at UM6P)



12:45 – 15:00

Lunch for confirmed arrivals at Hilton
Hotel



18:00 – 20:00

Breaking the Ice – Team-building
activity at UM6P Bowling



20:00 – 22:00

Dinner at Hilton Hotel

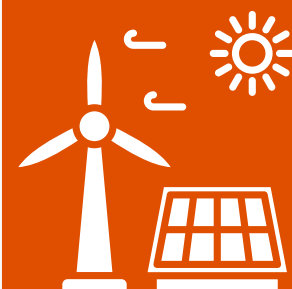


Monday, May 18: Opening Renewable Energies Solutions



7:30 – 9:00

Breakfast at the Hilton Hotel
(UM6P Benguerir Campus)



11:00 – 11:30

Global Energy Outlooks and
Deployment Pathways (30 min),
• **Pr.Akito Ozawa (AIST, Japan)**

9:00 – 10:30

Opening Ceremony:

- **Mr. Hicham El HABTI, UM6P President** – Welcome Address (10 min)
- **Pr. Abdelilah SLAOUI (CNRS)** – RD20 Summer School – Potential & Challenges (10 min)
- **Pr. Abdessamad FAIK (UM6P)** – Driving the Energy Transition: Global Perspectives and African Opportunities (15min)
- Program Overview and Technical Orientation (10 min)

Panel Discussion with Guests: 45 mins

- **Distinguished Leaders from Industry and Academia,**



11:30 – 13:00

Photovoltaics technology in the
Global Energy Mix (30 min),

- **Pr. Khotimatul Fauziah (BRIN, Indonesia)**

Wind turbine technology as a
Pillar of Clean Energy (30 min),

- **Pr. Jamie Speirs (University of Strathclyde, UK)**

Grid/power systems (modeling and
overview) (30 min),

- **Pr. Hiroshi Kikusato (AIST, Japan)**



13:00 – 15:00

Lunch at the Hilton Hotel
(UM6P Benguerir Campus)



15:00 – 17:00

Visits to UM6P Labs, 1337, Green
Energy Park & Team Building



19:00 – 21:30

Poster Session & Dinner at the
swimming pool of Hilton Hotel



10:30 – 11:00

Coffee break



Tuesday, May 19: Renewable Energy Storage & Beyond



7:30 – 9:00

Breakfast at the Hilton Hotel



12:30 – 14:30

Lunch at the Hilton Hotel
(UM6P Benguerir Campus)



9:00 – 10:30

Understanding and Advances in
Battery Energy Storage (30 min),

- **Pr. Tony Burrell (NREL, USA)**

Storing Heat, Cutting Emissions:
Thermal Energy Storage in Action for
Industry (30 min),

- **Pr. Alain Ruby (CEA, France)**

Biofuels/bioenergy: potential and
limits (30min)

- **Pr. Sanjukta Subudhi (TERI, India)**



10:30 – 11:00

Coffee break



14:30 – 17:30

Case Study 1 – Grid Integration &
Power-to-X Pathways, (40 min),

- **Speakers: Pr. Claire Gauthier / Pr. Pierre Gavaille (CEA, France) / Pr. Mourad NACHTANE**

- **Experts:**

- **Pr. Pierre SERRE-COMBE (CEA, France)**
- **Pr Zakaria CHCHIYAI (UM6P)**
- **Dr Said SAIR (UM6P)**
- **Dr Hassan NAANANI (UM6P)**

- **Group Work, (2 h)**

- **Wrap-up, (20 min)**

- **Coffee available during the session**



18:30 – 20:30

Team Building activity at Club de tir



20:30 – 22:00

Dinner at Club de tir and UM6P Music
band



11:00 – 12:30

Panel Discussion 1: Understanding
Sustainability Transitions: Systems
Thinking for Net Zero

Moderator : **Pr Bill Tumas (NREL, USA)**

Experts:

- **Pr. Oki Muraza (PT. PERTAMINA – Indonesia)**
- **Tony Burrell or Katie Harrison (NREL, USA)**
- **Pr. Pierre SERRE-COMBE (CEA, France)**
- **Pr. Christian Thiel (JRC, EU)**
- **Senior OCP Business Units representative (Morocco)**



Wednesday, May 20: Green Fuels & CCUS



7:30 – 9:00

Breakfast at Hilton Hotel



12:30 – 14:30

Lunch at the Hilton Hotel
(UM6P Benguerir Campus)



9:00 – 10:30

Green Hydrogen Production: A Clean Molecule for a Net-Zero World (30 min),

- **Pr. Julie Mougin (CEA, Franca)**

Green Ammonia Production: A Clean Molecule for a Carbon-Free Future (30 min),

- **Pr. Yuichi Manaka (AIST, Japan)**

Solar fuels—photosynthesis to artificial photosynthesis (30 min),

- **Pr. Bill Tumas (NREL, USA)**



14:30 – 17:30

◦Case Study 2 – Hydrogen & Ammonia in the Value Chain: Calculating the True Climate Cost (40 min),

- **Speaker: Pr. Deebadjeet BORA (UM6P)**

• **Experts:**

- **Pr Ghulam ABBAS (UM6P)**
- **Pr Shahid MAHMOUD (UM6P)**

◦Group Work, (2 h)

◦Wrap-up, (20 min)

◦Coffee available during the session



10:30 – 11:00 Coffee break



11:00 – 11:30

Carbon Capture, Utilization & Storage: From Emissions to Solutions (30 min),

- **Pr Tata Sutardi (BRIN, Indonésia)**



18:30 – 20:00

Team Building Activity – Bowling Competition



20:00 – 21:30

Poster Session 2 and Dinner at the Swimming Pool of Hilton Hotel



11:30 – 12:30

Panel Discussion 2: Scaling Power-to-X: From Innovation to Industrial Transformation

Moderator : **Pr. Akito Ozawa (AIST, Japan)**

Experts:

- **Pr Claire Gauthier / Pr. Pierre Gavoille (CEA, France)**
- **Pr. Sanjukta Subudhi (India)**
- **Pr. Tata Sutardi (BRIN, Indonésia)**
- **Senior OCP Business Units representative (Morocco)**



Thursday, May 21: Materials, AI & Sustainability

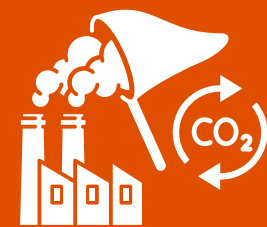


7:30 – 9:00 Breakfast at Hilton Hotel



12:45 – 14:30

Lunch at Hilton Hotel



9:00 – 10:30

Supply chain analysis, including but not limited to critical materials, (30 min),

- **Pr. Margaret Mann (NREL, USA)**

Faster, Smarter, Cleaner: AI-Driven Innovation in Materials Science, (30 min),

- **Pr. Romain Gautier (CNRS, France)**

Cities Leading the Transition: Climate-Neutral and Smart Cities (30 min),

- **Pr. Christian Thiel (JRC, EU)**



10:30 – 11:00 Coffee break



11:00 – 12:00

Safety (30 min),

- **Pr Ghulam ABBAS (UM6P, Morocco)**

Sustainability 30 min,

- **Pr Myriam Merad (CNRS, France)**



18:30 – 19:45

Departure to Marrakech



20:00 – 22:30

Gala Dinner



22:30

Departure to Ben Guerir



12:00 – 12:45

Panel Discussion 3: Sustainability, Financing and Engaging for a Just Energy Transition.

Moderator : **Pr Stéphanie Riché (CEA, France)**

Experts:

- **Jamie Speirs (STRATH, UK)**
- **Abdelilah Slaoui (CNRS)**
- **Senior OCP Business Units representative (Morocco)**



Friday, May 22: Project Presentations & Graduation



7:30 – 9:00

Breakfast at Hilton Hotel



9:00 – 10:30

Group project presentations – Set 1



10:30 – 11:00

Coffee Break



11:00 – 12:00

Group project presentations – Set 2



12:00 – 12:30

Award Session & Graduation Session

Official closing



12:30 – 14:30

Lunch at Hilton Hotel



15:00 – 16:15

Departure to Marrakech



16:30 – 21:30

Free Tour & Dinner (on your own)



21:30

Departure to Ben Guerir



Saturday, May 23: Departure



7:30 – 9:00

Breakfast at Hilton Hotel



9:00 – 12:00

Check out