

AAF 2021

SUMMER UNIVERSITY



VIRTUAL EVENT

The program is organized in two sessions

Part I : **August, 27th / 28th / 29th**

Part II : **September, 10th / 11th / 12th**

Please visit <https://tinyurl.com/AAFsummeruniversity2021>

Online registration (limited spots) : from July 5th to July 19th

➤ Topic 1: Renewable Energies

Silicon Technology (Si Growth, Cell and Panel fabrication, LCA, Panel reliability under desert climate...) / Connection to the Grid: BOS, Power Control / Solar applications / Energy Storage technologies (Li(Na, S) Batteries, Green hydrogen...) / Trends and Challenges in the PV Market

➤ Topic 2: Biology, Biotechnology & Health

Cybergenetics / Clinical leadership / R&D in pharmaceutical industries in Algeria / Clinical education / Marketing and developing an idea into a business and entrepreneurship / Vaccines including Com-Cov (mixing of COVID vaccines) and vaccine hesitancy and its origins / Computational oncology / Immune-based therapies / Technical evaluation and registration of pharmaceutical products / Development of a research proposal, and grant writing / Soft skills development (CV/interview preparation/effective presentation of research work)

➤ Topic 3: Civil Engineering

Modeling and analysis methods for structures and continua/ Seismic design principles for new and existing buildings/ Emerging concepts in modern building and bridge codes/ Advanced topics in structural concrete/ Geotechnical earthquake engineering/ Innovative technologies for structural renewal including strengthening and retrofitting of existing structures/ Modeling of catastrophic risk/ Resilience of interdependent infrastructure systems and communities/ Advances in vision-based inspection and monitoring of civil infrastructure/ Structural health monitoring and Data mining technology/ Aspects of Architectural Engineering/ Presentations by doctoral students highlighting their research..

➤ Topic 4: Advanced Computing

Artificial Intelligence / Deep and Machine Learning / Cloud Computing / Cyber Security including applications in the Internet of Things / Algorithms / Operating systems / Networking and distributed systems, databases, and hardware,

Targeted Audience Graduate students, Researchers, Faculty members, Industrials, Professionals