



International Webinar on Sciences, Sustainable Development and Ecosystems in Saudi Arabia 2021



جامعة الإمام عبد الرحمن بن فيصل IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

College of Science كلية العلوم



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Abstract

The Saudi Vision 2030 focuses on the investment power to create a more diverse and sustainable economy. The vision highlights the indispensable role of science and technologies to develop sustainable local solutions and preventing the exhaustion of natural resources. Accordingly, the motivation behind the **International Webinar on Science, Sustainable Development and Ecosystems in Saudi Arabia 2021**, hosted by **the college of science at Imam Abdulrahman Bin Faisal University**, is to promote and strengthen the role of science and technologies so they effectively respond to the Saudi Arabia 2030 vision. During this webinar, we aim at looking for inspiring experiences and advanced intelligent solutions in water and waste management, renewable energy, advanced materials, ecosystem management, and recent advances in mathematical modeling that would support and activate the role of science in sustainable development.

Webinar Themes

For information please

- Biosciences, Ecosystems, and Environment.
- Sciences and Technology of Advanced Materials.
- Numerical and Mathematical Modeling for Sustainable Development.
- Renewable Energy and Water Sustainability In KSA.

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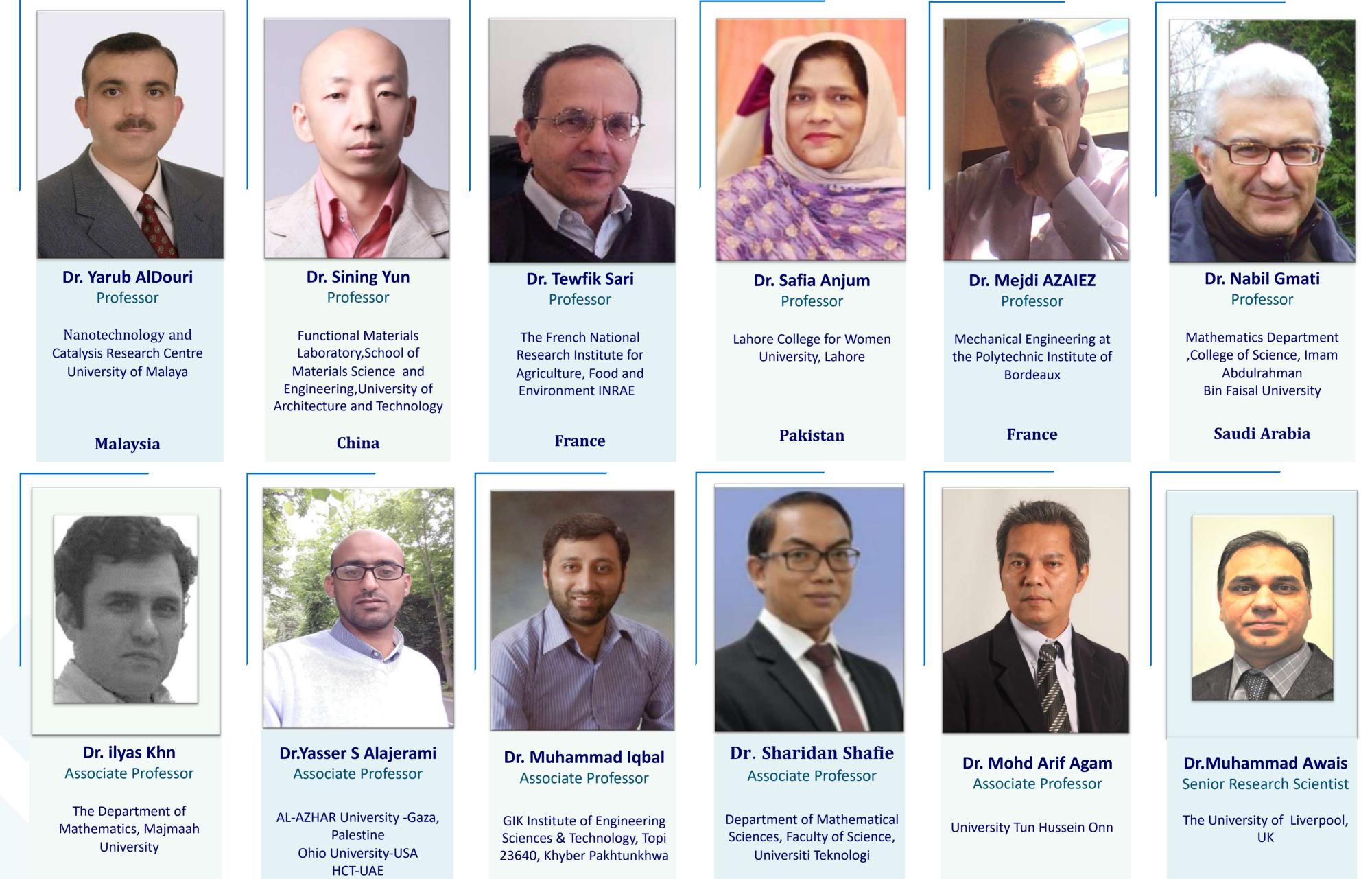
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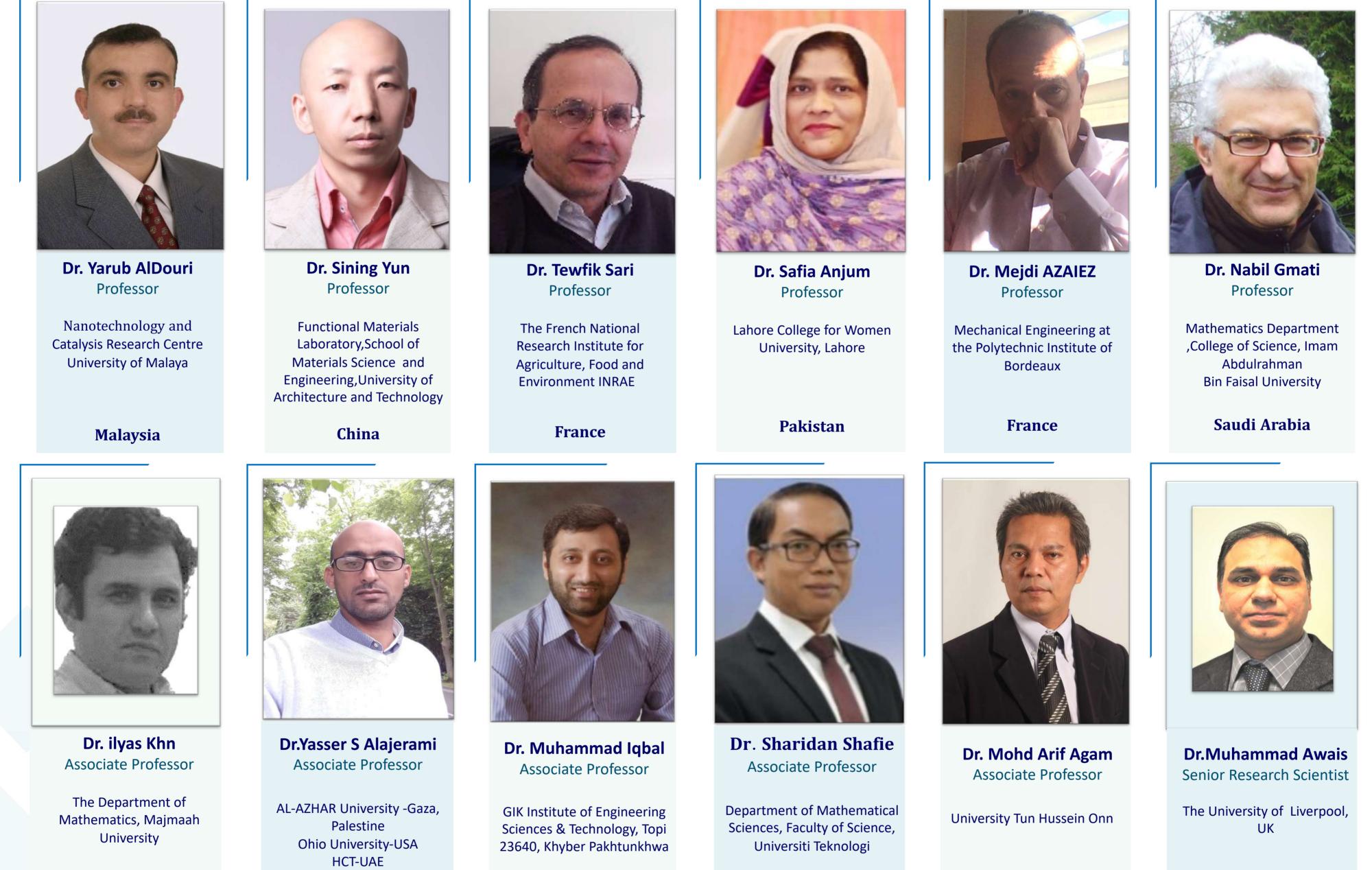
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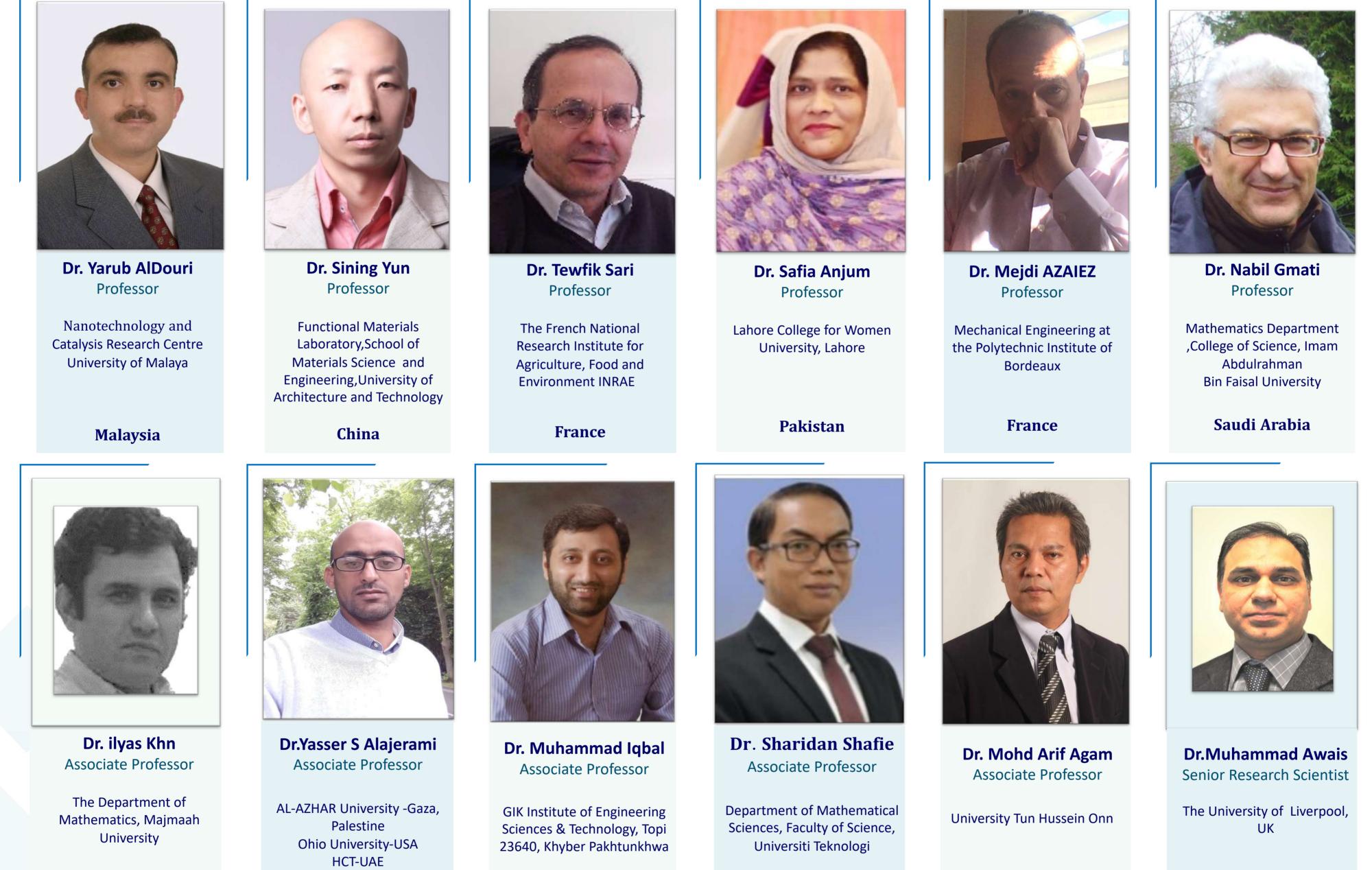


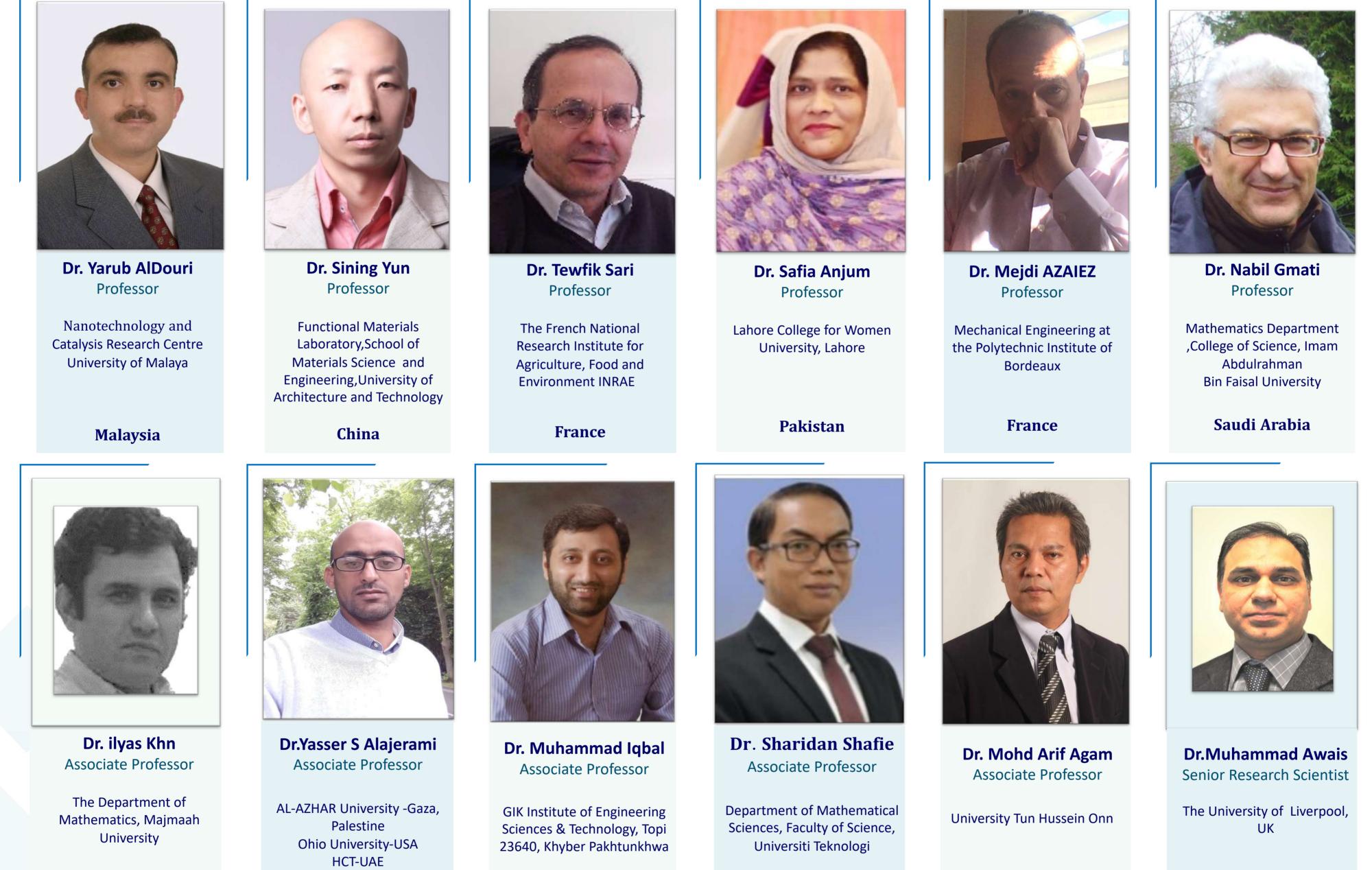
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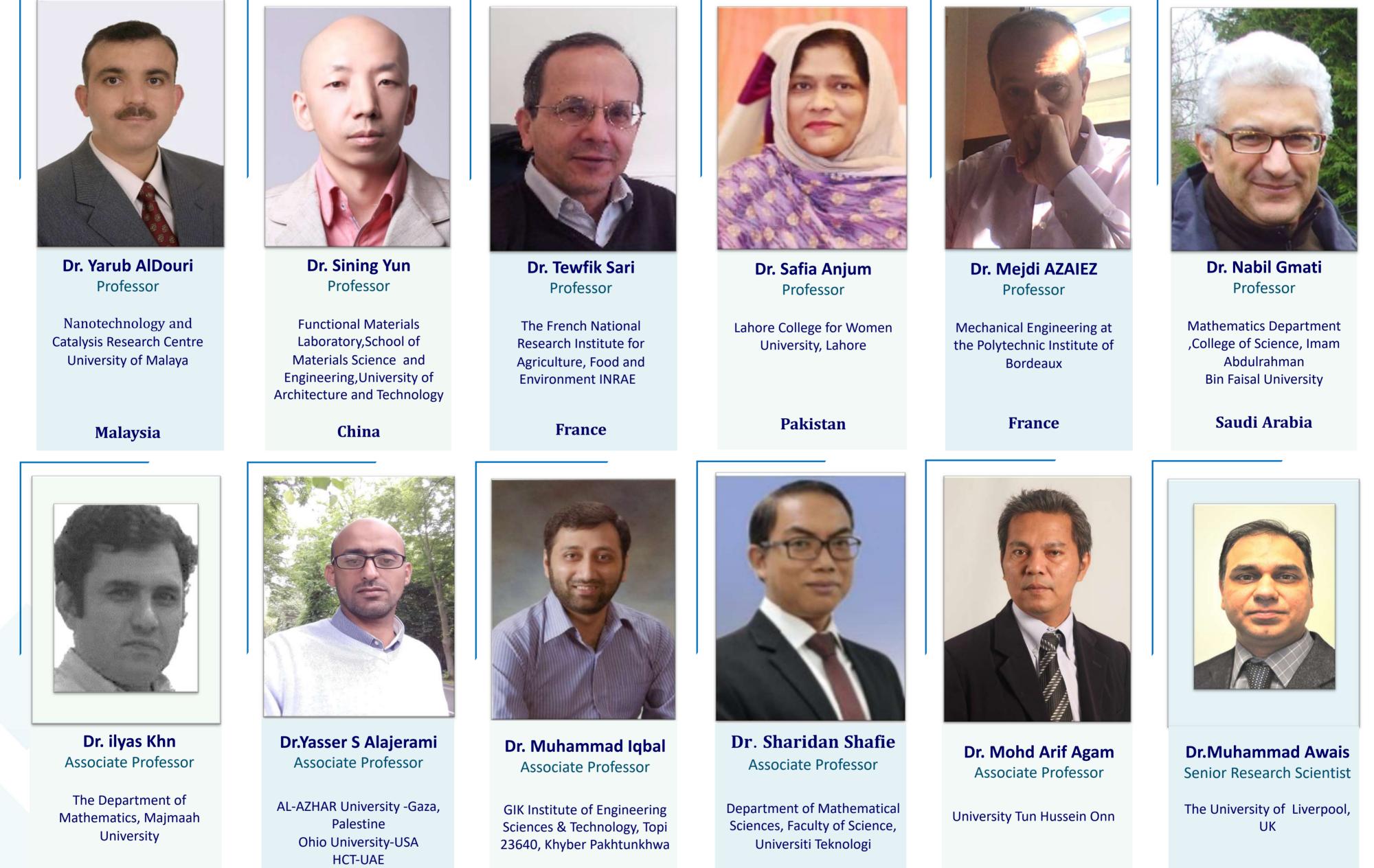
Speakers of the First Day Tuesday 6 April, 2021

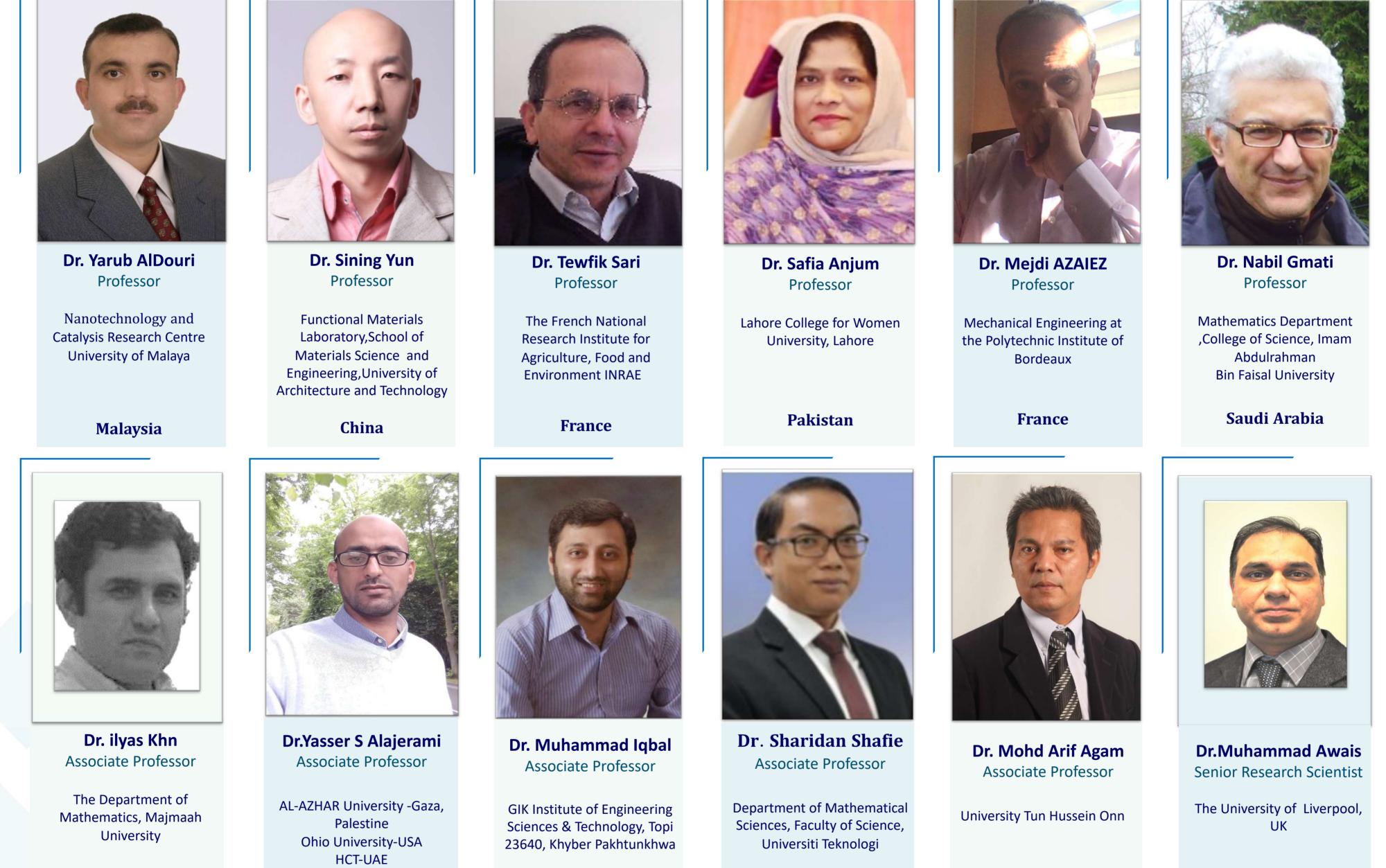












Saudi Arabia

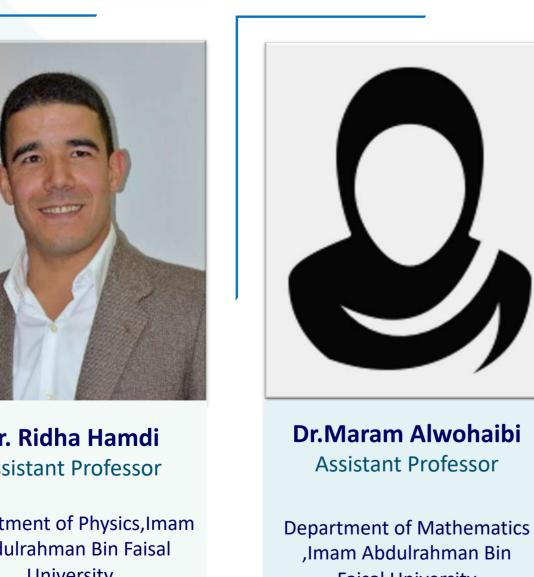
Palestine, USA ,UAE

Pakistan

Malaysia

Malaysia

United Kingdom



Dr. Ridha Hamdi **Assistant Professor**

Department of Physics, Imam Abdulrahman Bin Faisal University

Saudi Arabia



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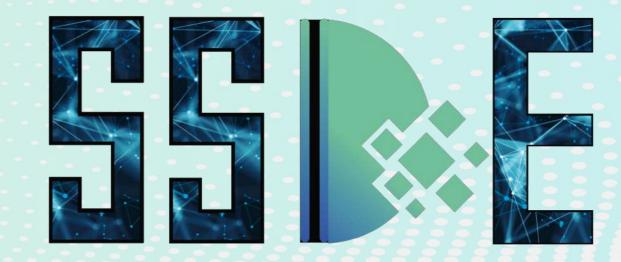


for Integrated Scientific Solutions









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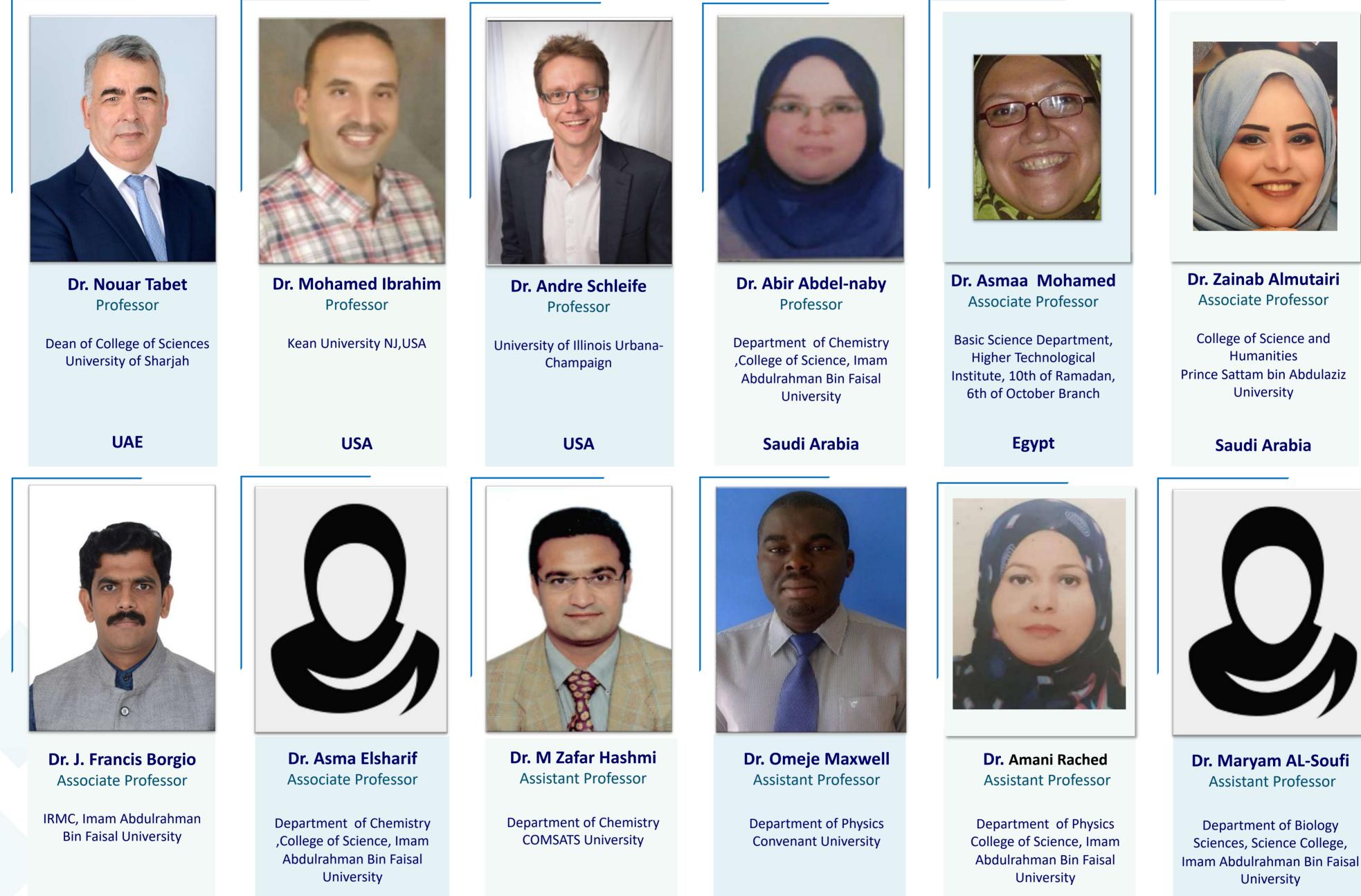
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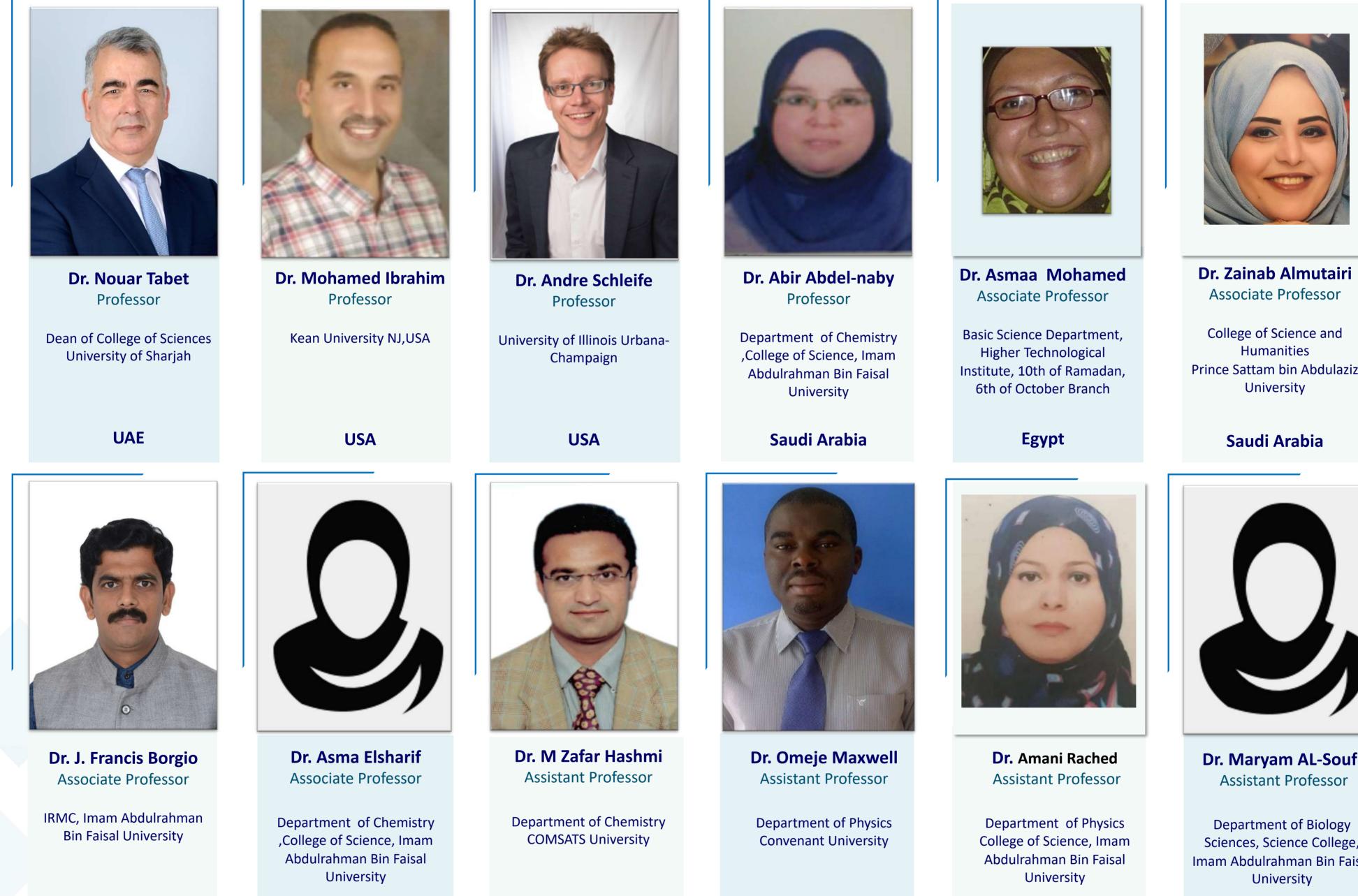
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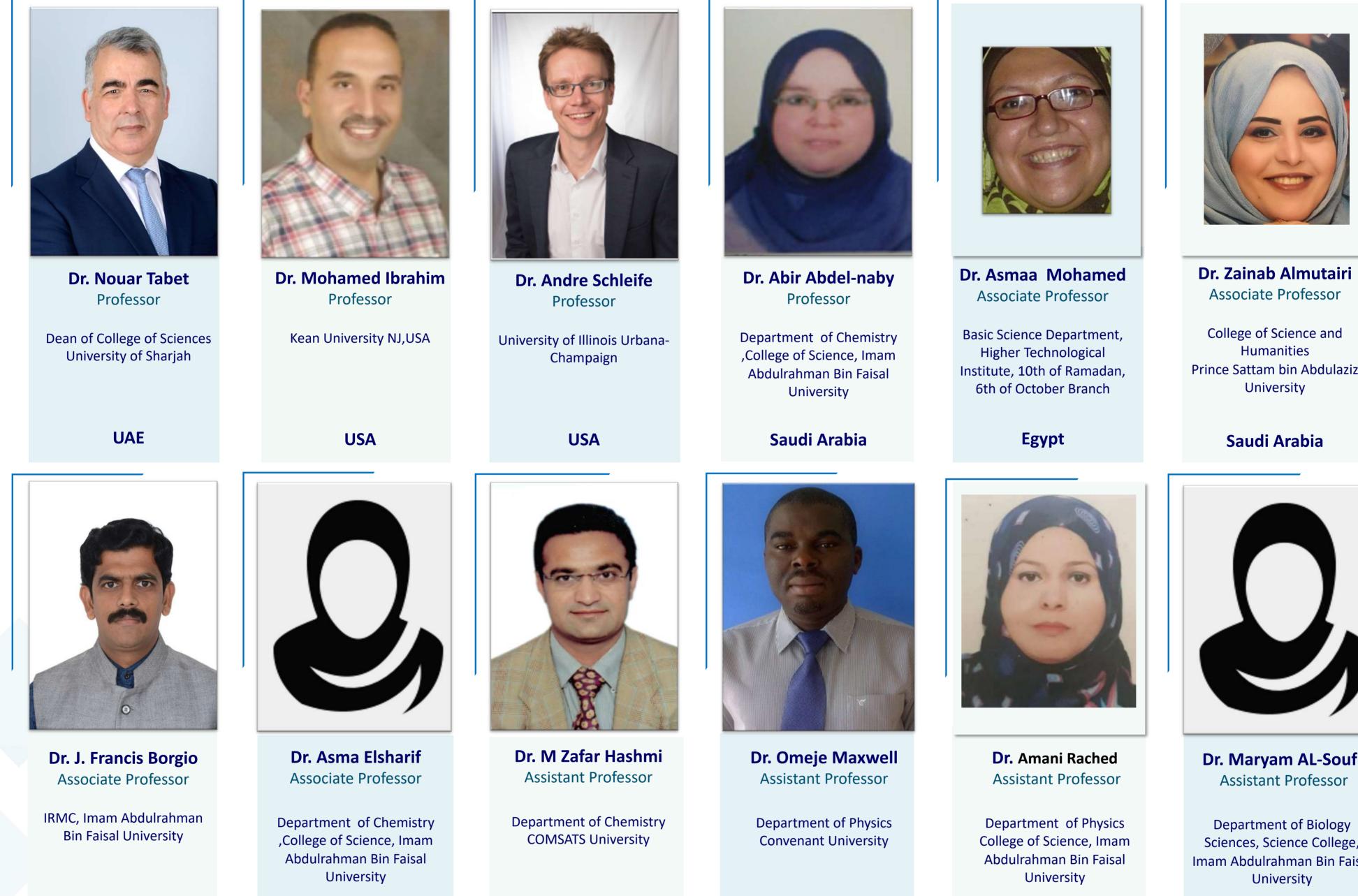


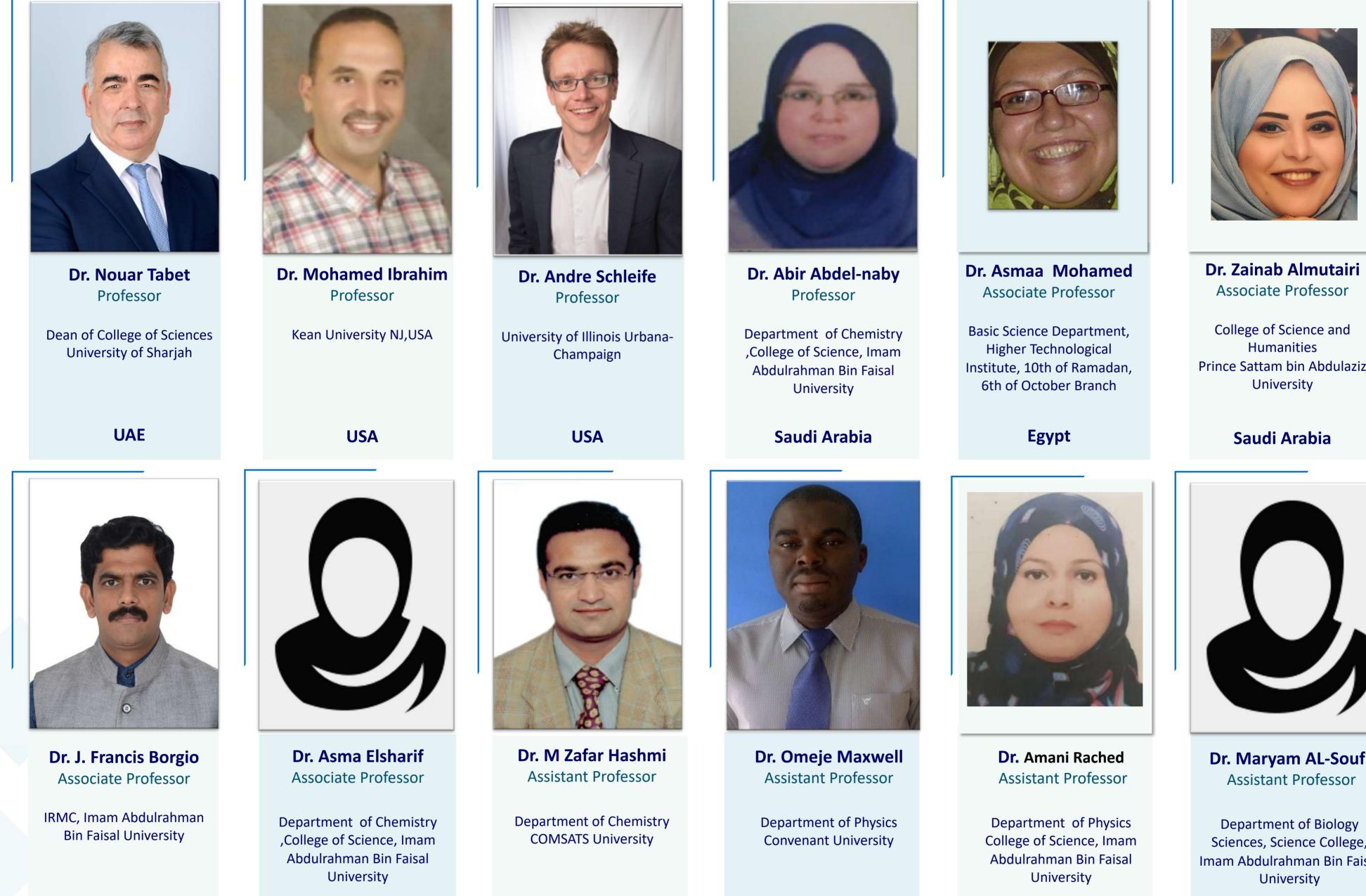
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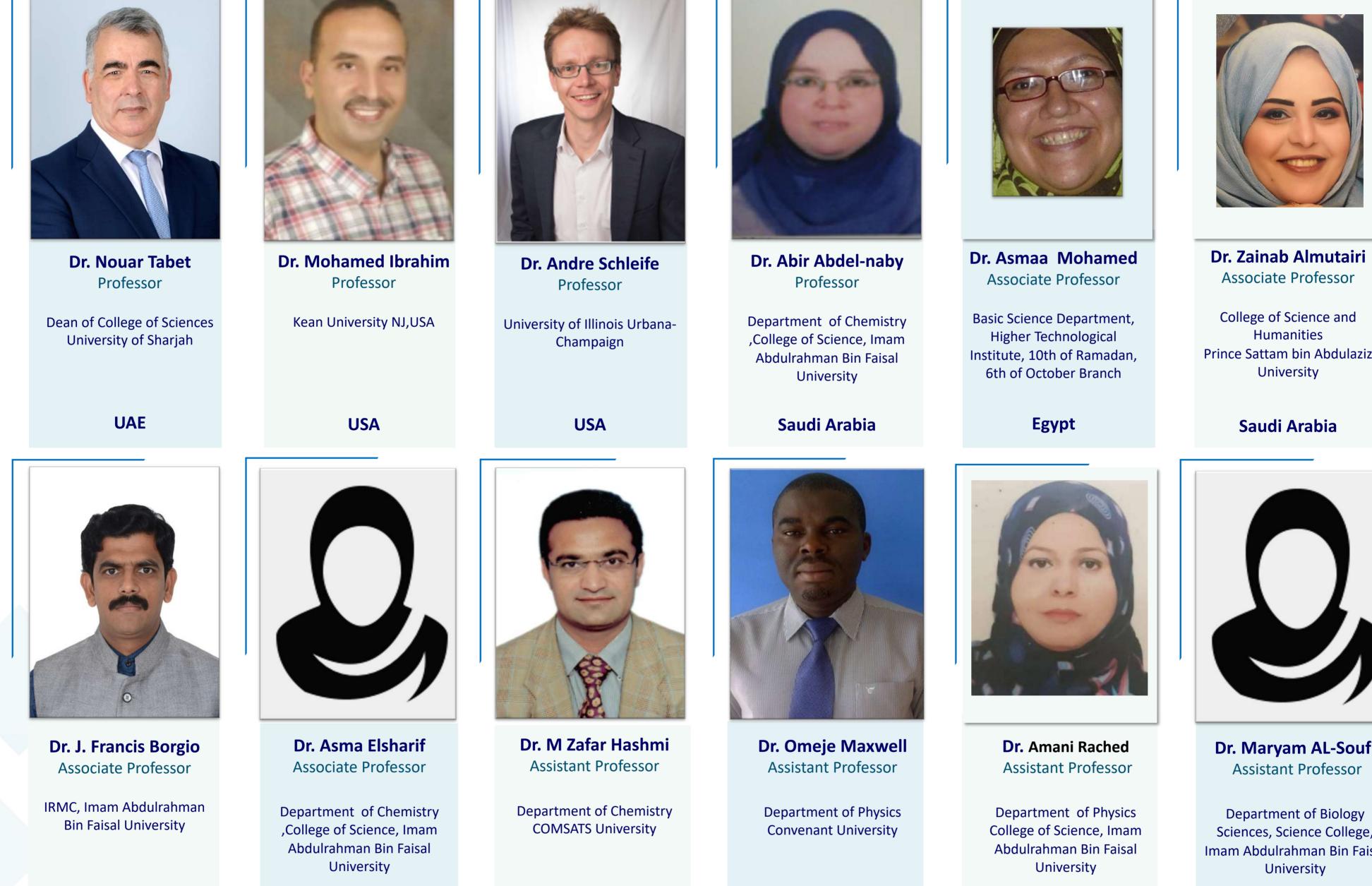
Speakers of the Second Day Wednesday 7 April,2021











Pakistan



Saudi Arabia

Saudi Arabia

Dr. Nadiyah Alabdullah **Assistant Professor**

Department of Biology Sciences, Science College, Imam Abdulrahman Bin Faisal University

Saudi Arabia



Engineering consulting castle of SOFIA (ECCOS)

Saudi Arabia



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Nigeria



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Saudi Arabia

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Day 1: Tuesday 6 April 2021

QR code for Attendance



	Advanced Materials and Recent Advances in Mathematica	I Modelling For Sustainable Development
Session 1		Tahani Al-Qahtani , Department of Physics, CSD, IAU
	8 :30 am → 9:00 : Opening C	eremony
Time (KSA)	Title of the Presentation	Speaker
		Prof Varub Aldouri

		Prof. Yarub Aldouri
9:00 → 9:25	Solar Cell and Nanotechnology	Nanotechnology and catalysis research center University of Malaya
		Malaysia
	Investigation of Gamma radiation shielding properties of cadmium	Dr. Yasser Alejrami
9:25 → 9:50	bismuth borate glass experimentally, XCOM program and MCNP5 code	Ohio state university
		USA
	Investigation of magnetic and ferroelectric properties of chromium	Prof. Safia Anjum
9:50 → 10:15	substituted M-type barium hexaferrites	Lahore College for women university
		Pakistan
		Dr.Ridha Hamdi
10:15→ 10:35	Liquid crystals for LCDs technology	College of Science, Imam Abdulrahman Bin Faisal University
		KSA
		Dr.IIyas khan
10:35→ 11:00	Newtonian, and non-Newtonian fluid	Al Majmaah university
		KSA
		Prof. Nabil Gmati
		-College of Science , Imam Abdulrahman Bin Faisal University
		KSA
11:00 → 11:25	New Neural Network classification method	
		Dr.Harouna Soumare
		National Engineering School of Tunis
		Tunisia
		Dr. Maram Alwohaibi
11:25 → 11:50	Modelling the Risk of Underfunding in ALM Models	College of Science, Imam Abdulrahman Bin Faisal University
		KSA
	Break from $11:50 \rightarrow 1:00$	







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Session 2	Chairman : Dr. Lulwah Al-Essa Assistant Professor of Algebra, Department of Mathematics, CSD, IAU		
Time (KSA)	Title of the Presentation	Speaker	
1:00 → 1:25	Recent Trends and Inovations Towards Next Generation Hybrid Energy Storage Devices	Dr. Zaheer Iqbal GIK Institute of engineering science and technology Pakistan	
1:25 → 1:50	Characteristic of Various Essential Dimensionless Numbers on Fluid Flow and Heat Transfer Phenomenon	Dr. Sharidan Bin Shafie University Technology Malaysia Malaysia	
1:50 → 2:15	The Chemostat: Mathematical Theory of Microorganism Cultures	Prof. Sari Tewfik The French National Research Institute for Agriculture, Food and Environment (INRAE) France	
2:15 → 2:35	Tantalum-based Transition Metal Nanohybrid: From Nano-size to Single Atom	Prof. Sining Yun XIAN university of Architecture and Technology China	
2:35 → 3:00	Laser Irradiated Doped Polystyrene as Facile Technique in Fabricating Graphitic Materials	Dr. M Arif Agam Faculty of Applied Sciences and Technology UTHM Malaysia	
3:00 → 3:25	Novel technology for detection of environmental hormones in live cells	Dr. Muhammad Awais University of Liverpool UK United Kingdom	
3:25 → 3:50	Virtual material for Thermal Energy Storage	Prof. Azaiez Mejdi Bordeaux University France	







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Day 2: Wednseday 7 April 2021

QR code for Attendance



	Biosciences, Ecosystems, Renewable Energy,	and Water Sustainability
Session 1	Chairman : Dr. Hana Assistant Professor of Plant Ecology,	
	8 :30 am → 9:00 : Opening Ce	remony
Time (KSA)	Title of the Presentation	Speaker
		Dr. Zainab Almutairi

	Diversity of Local Pear Millet Varieties: Toward Food Security in Saudi	College of Science and Humanities	
9:00 → 9:25	Arabia	Prince Sattam bin Abdulaziz University	
	Αιαρία	KSA	
		Dr. J. Francis Borgio	
9:25 → 9:50	Gene - Environment (G×E) Interactions Influence Human Phenome	IRMC, Imam Abdulrahman Bin Faisal University	
0.20 / 0.00		KSA	
		Dr. M Zafar Hashmi	
9:50 → 10:15	Arsenic levels and biomethylation genes abundance in Paddy soils from Pakistan	Department of Chemistry COMSATS University	
		Pakistan	
		Dr. Maryam Haroon AL-Soufi	
10:15→ 10:35	Sustainable Soil Amendment for Saudi Arabian Sandy Soil	College of Science, Imam Abdulrahman Bin Faisal University	
		KSA	
	Impact of algol biofortilizer on plants growth and matchaliam under Calt	Dr. Nadiyah Alabdullah	
10:35→ 11:00	Impact of algal biofertilizer on plants growth and metabolism under Salt	College of Science, Imam Abdulrahman Bin Faisal University	
	Stress Conditions	KSA	
		Prof. Mohamed Ibrahim	
11:00 → 11:25	Soil contamination and Remediation	KEAN UNIVERSITY, School of Natural Sciences NJ	
		USA	
		Dr. Amani Rached	
		College of Science, Imam Abdulrahman Bin Faisal University	
		KSA	
11:25 → 11:50	Modelling and performance optimization of InGaN based PIN Solar cells		
		Dr. Rabeb Belghouthi	
		Université de Lorraine, Centrale Supélec, LMOPS, Metz	
		France	
	Break from $11:50 \rightarrow 1:00$		







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Session 2	Chairman : Dr. Reem AlBilali Assistant Professor of Physical Chemistry, Department of Chemistry, CSD, IAU		
Time (KSA)	Title of the Presentation	Speaker	
1:00 → 1:25	PV Technology: R&D Paths to Exit the Oil Age	Prof. Nouar Tabet Dean of College of Sciences University of Sharjah UAE	
1:25 → 1:50	LIBS as a strategy for enhancing water Quality	Dr. Asmaa Elhassan Ramadan Mohamed Basic Science Department, Higher Technological Institute, 10th Ramadan, 6th of October Branch Egypt	
1:50 → 2:15	Graft Copolymerization of Diallylamine onto starch, as non-Energy consuming Resins for water treatment use	Prof. Abir Abdel-naby College of Science, Imam Abdulrahman Bin Faisal University KSA	
2:15→ 2:35	Increasingly Important of Sustainable water Resource Management: Challenges and Prospects in Saudi Arabia	Dr. Omeje Maxwell Department of Physics Convenant University Nigeria	
2:35 → 3:00	Water & Energy Production Dreems, Protection & Tariffs(Including Renewable Resources)	Eng. Mohamed AL-Sufi Engineering consulting castle of SOFIA (ECCOS) KSA	
3:00 → 3:25	Solar Energy Water Splitting for Storable Fuel Generation	Dr. Asma Elsharif College of Science, Imam Abdulrahman Bin Faisal University KSA	
3:25 → 3:50	Materials Design Driven by Computation and Shared Research Data: The Example of Excited Electrons	Prof. Andre Schleife University of Illinois Urbana-Champaign USA	







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Poster Session

	Day 1: Tues	day 6 April 2021	
Time	Title of Presentation	Speaker	QR for Attendance
1:50→ 1:00	The Selective Hydrogenation of Furfural over Supported Palladium Nanoparticle Catalysts Prepared by Sol- Immobilization: Effect of Catalyst support and Reaction Conditions	Dr.Reem AlBilali College of Science, Imam Abdulrahman Bin Faisal University	
1:50→ 1:00	Structural and radiation shielding features for a new series of borate glass samples	Dr. Mohammad Abu Mhareb College of Science, Imam Abdulrahman Bin Faisal University	
11:50→ 1:00	Microbial influenced corrosion by sulfate reducing bacteria	Sara Alsaggaf College of Science, Imam Abdulrahman Bin Faisal University	
	Day 2: Wedne	esday 7 April 2021	
Time	Title of Presentation	Speaker	QR for Attendance
11:50→ 1:00	III-Posed Multi-Dimensional Boundary Value Problems for Linear Hyperbolic Equations of Higher Order	Dr.Noha Aljaber College of Science, Imam Abdulrahman Bin Faisal University	
l1:50→ 1:00	Scalable synthesis of Cu–Sb–S phases from reactive melts of metal xanthates and effect of cationic manipulation on structural and optical properties	Dr. Tahani Al-Qahtani College of Science, Imam Abdulrahman Bin Faisal University	
11:50→ 1:00	Effective Adsorption Heavy Metals from wastewater by using polyamide Graphene (PAG)	Afnan Ajeebi College of Science, Imam Abdulrahman Bin Faisal University	

