

 **UM6P
SCIENCE
WEEK**

AT THE FRONTIERS OF SCIENCE



SHAPING THE FUTURE

17 — 23 February 2025

AGENDA

SESSION A	OFFICIAL OPENING OF SCIENCE WEEK 2025	AMPHI 2017
09.30 - 10.00	WELCOME OF PUBLIC AND PARTICIPANTS	
10.00 - 10.10	Hicham EL HABTI President of UM6P: OPENING REMARKS	
10.10 - 10.20	Film screening 'SCIENCE WEEK: PAST EDITIONS'	
10.20 - 10.50	Fouad LAROUÏ : 'DOES SCIENCE REALLY THINK?'	
10.50 - 11.20	Jacob JONES : 'SHAPING OUR FUTURE WITH PHOSPHORUS'	
11.20 - 11.50	Ken GILLER : 'SHAPING THE AGRICULTURAL FUTURE OF AFRICA'	
11.50 - 12.20	STUDENTS reflect on 'SCIENCE AND OUR FUTURE'	
12.20 - 12.45	Visit of 'SCIENCE VILLAGE' and SAP+D EXHIBITION	
12.45 - 14.00	Lunch	

SESSION B1	ABS
(Africa Business School)	'LEADERSHIP AND SKILLS FOR A CHANGING WORLD'
	IGHLI AMPHI
14.30 - 14.40	WELCOME & OPENING REMARKS
14.40 - 15.10	Steven DHONDT : 'BUILDING BRIDGES: PREPARING THE WORKFORCE FOR CHALLENGES OF INDUSTRY 5.0'
15.10 - 15.40	Seren DALKIRAN : 'NEW PARADIGMS AND NEXTGEN LEADERSHIP IN NAVIGATING THE FUTURE'
15.40 - 16.10	Amine BELEMLIH : 'TRANSFORMATIONAL LEADERSHIP FOR A CHANGING WORLD'
16.10 - 16.30	Coffee Break
16.30 - 17.30	Panel Discussion: 'FUTURE SKILLS AND SKILLS OF THE FUTURE' - Khong-Lô PHAM, Reda EL ANDALOUSSI, Steven DHONDT, Seren DALKIRAN, Amine BELEMLIH

SESSION B2	GTI
(Green Tech Institute)	'SHAPING A SUSTAINABLE FUTURE: SCIENCE, INNOVATION, ACTION'
	AMPHI 2017
14.30 - 15.15	Welcome & Introduction to the theme 'SHAPING A SUSTAINABLE FUTURE'
	Opening Speech: Reda HAMEDOUN delivers 'A CALL FOR ACTION'
15.15 - 16.00	Philippe ESPOSITO : 'THE EXPERT'S STORY - GREEN HYDROGEN INNOVATION'
16.00 - 16.15	Coffee & Networking Break. GTI EXHIBITION .
16.15 - 17.15	Interactive Challenge: "FROM AN IDEA TO THE MARKET" (Session led by GTI students) Student competition
17.15 - 18.00	Closing Panel Discussion: 'THE FUTURE BEGINS HERE'
	Showcase: GTI's Impact Video Tower. AWARDS CEREMONY

SESSION C	AMPHI 2017
18.00 - 18.30	Tarik OUALALOU (Architect and Professor) presents HASSAN II STADIUM , the largest stadium in the world.

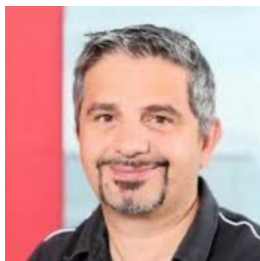


SESSION A

COLLEGE OF COMPUTING

AMPHI 2017

- 09.00 - 09.30 Coffee Break
- 09.30 - 10.15 **Mark BÜRKI** 'THE STORY OF AN INTERNET BANK'
- 10.15 - 11.00 **Amin SHOKROLLAHI** 'FROM INFORMATION THEORY TO HARDWARE'
- 11.00 - 11.45 **Edward BUGNION**: 'THE STORY OF A VIRTUAL MACHINE'
- 11.45 - 14.30 Lunch



SESSION B

COLLEGE OF COMPUTING

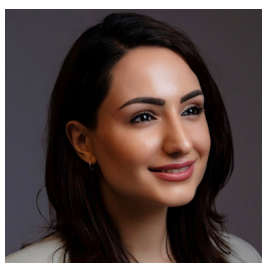
ENTREPRENEURSHIP IN TECH
IGHLI AMPHI

14.30 - 15.00
Hicham OUDGHIRI
'ABOUT ENIGMA'

15.00 - 16.00
SELECTED STUDENT PRESENTATIONS

16.00 - 16.30
**RESULTS OF THE STUDENT
COMPETITION**

16.30 - 17.00
Coffee Break



SESSION C1

AGC - African Genome Center

**'THE FUTURE POTENTIAL OF GENOMICS IN MOROCCO &
BEYOND'**

TAROUDANT ROOM

15.00 - 15.45
Patrick HESLOP-HARRISON 'GENOMICS: THE FUTURE'

15.45 - 17.00
Workshop: 'THE FUTURE POTENTIAL OF GENOMICS'
Moderator: **Bulbul AHMED**

SESSION C2

The Global Critical Zone Science Chair (IAS)

IGHIL ROOM

'PHOSPHOROUS & SUSTAINABILITY'

Moderator: **Hudson Wallace Pereira DE CARVALHO**

14.00 - 14.30

Welcome of the public

14.30 - 15.00

Ross SOZZANI 'BIOMATERIALS AND PROTEINS TO IMPROVE PHOSPHATE AVAILABILITY TO PLANT CELLS'

15.00 - 15.30

Rubén RELLÁN-ÁLVAREZ 'USING CROP NATURAL GENETIC VARIATION TO IMPROVE PHOSPHORUS EFFICIENCY'

15.30 - 16.00

Amy GRUNDEN 'BIOTECHNOLOGICAL APPLICATION OF BENEFICIAL MICROBES FOR SUSTAINABLE AGRICULTURE'

16.00 - 16.30

Moez AMRI 'WHAT IF THE 4R FERTILIZER STEWARDSHIP IS MISSING A 5TH R?'

16.30 - 17.00

Leonardus VERGUTZ 'PHOSPHORUS FLUXES IN AGRISYSTEMS & SUSTAINABLE P FERTILIZERS'

SESSION C3

SHBM - School of Hospitality and Business Management

ASNI AMPHITHEATER

'EXPLORING THE INTERSECTION OF SCIENCE, ETHICS AND HUMANITY'

PRE-CONFERENCE ACTIVITIES (Morning Sessions)

FUTURE HOSPITALITY TOURISM CHALLENGE (Nationwide competition)

MAIN CONFERENCE (Afternoon Sessions)

Hospitality Session: **'SHAPING THE FUTURE OF HOSPITALITY'**

14.00 - 15.15

Opening ceremony of the **TRAVEL CELEBRATION WEEK** (Official representation)

15.30 - 18.00

SHBM Student Showcase and Interactive Session

WICKED PROBLEMS AND VIABLE FUTURE OF TOURISM

in partnership with the Chair of Complexities ∞ Humanities.

18.00 - 18.45

Closing reception

SESSION C4

GSMI - Geology & Sustainable Mining Institute

AMPHI 2017

'MINING THE FUTURE'

14.30 - 15.15

Richard LILLY 'THE MINE OF THE FUTURE'

15.15 - 15.45

Simon MICHAUX 'A PROPOSED FOSSIL FUEL FREE MINE OPERATION'

16.00 - 16.30

Harwood MALCOLM EDEN 'MINING 5.0'

17.00 - 17.45

Panel

'ENVISIONING THE MINE OF THE FUTURE: CHALLENGES AND OPPORTUNITIES AMID EMERGING CONSTRAINTS'

Mostafa BENZAAZOUA, Harwood MALCOLM EDEN, Richard LILLY, Jamal AMALIK, Oussama ELKHADIRI YAZAMI

SESSION A

FMS - FACULTY OF MEDICAL SCIENCES

AMPHI 2017

MEDICAL SCIENCES: SHAPING THE FUTURE WITH AI?

09.00 - 09.30 Welcoming the Audience & Opening Remarks by Dean

Rachid EL FATIMY

09.30 - 10.00 **Intissar HADDIYA 'L'IA VA-T-ELLE REMPLACER LES NÉPHROLOGUES?'**

10.00 - 10.30 **Mohamed BENNANI 'L'IA VA-T-ELLE REMPLACER LES OPHTALMOS?'**

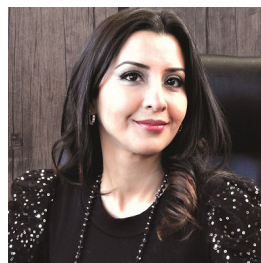
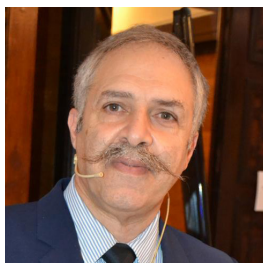
10.30 - 11.00 **Hassan CHELLY 'IA ET MÉDECINE: CRAINTES ET ESPOIRS'**

11.00 - 11.45 Debate and Q&A with the audience

Online from YALE School of Medicine

11.45 - 12.30 **Choukri BEN MAMOUN 'NOVEL THERAPEUTIC STRATEGIES TARGETING PATHOGEN ADAPTATION AND SURVIVAL MECHANISMS'**

12.30 - 13.45 Lunch



SESSION B

FMS - FACULTY OF MEDICAL SCIENCES

AMPHI 2017

PARAMEDICAL SCIENCES

14.00 - 14.45

Paul VERMOT 'OPTIMISATION DES PRATIQUES DE L'IA DANS L'ENSEIGNEMENT SUPÉRIEUR ET DANS LES SOINS'

14.45 - 15.15

Debate and Q&A with the audience

15.15 - 15.30

Coffee break

15.30 - 16.15

Céline NERI and Fouzia GUIBLAIN BOUMNADEL 'L'ÉVALUATION CLINIQUE INFIRMIÈRE: PERSPECTIVES CROISÉES SOINS SOMATIQUES / SANTÉ MENTALE'

16.15 - 17.00

Q&A with the public

17.00 - 17.30

Debriefing of the FMS day **Rachid EL FATIMY, Badia JABRANE**

SESSION C

CCH (CHAIRE COMPLEXITÉS ∞ HUMANITÉS)

IGHLI AMPHITHEATER

LE VIVANT: RÉTROSPECTIVE ET PROSPECTIVE

14.00 - 14.10

Welcome of the public

14.10 - 14.50

Abderrazak EL ALBANI 'DES ORIGINES DE LA VIE À L'ANTHROPOCÈNE'

14.50 - 15.30

Bernard LAHIRE 'VERS DES SCIENCES SOCIALES DU VIVANT'

15.30 - 16.00

Grazia BORRINI-FEYERABEND 'TERRITOIRES DE VIE'

16.00 - 16.15

Coffee break

16.15 - 16.45

Reda BENKIRANE 'SURVIVRE À L'ANTHROPOCÈNE: EXCROISSANCES ET LIMITES PLANÉTAIRES'

Q&A with the public. Moderator: **Nicolas SPERRY-GUILLOU**

Rapporteur: **Samia ERRAJI** (CC∞ H student associate)



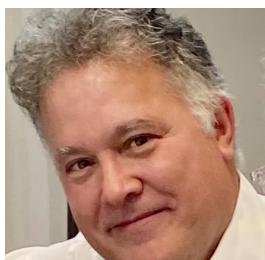
SESSION D

18.00-19.00

Conference (Learning Center)

IGHLI AMPHITHEATER

Fouad LAROU 'AI AND THE FUTURE OF ART'



SESSION A	MSN - MATERIALS SCIENCE & NANOTECHNOLOGY	AMPHITHEATER IBN ROCHD
09.30 - 10.00	Welcome of the public	
10.00 - 11.15	Mahiar Max HAMEDI 'SHAPING THE FUTURE, MATERIALS DESIGN AND THE AI PARADIGM' Debate focusing on sustainability, innovation & renewable energy (Abdelghani EL KACIMI, Ali KETTANI, Fouad GHAMOUSS, Mouad DAHBI, Mohammed MAKHA) Moderator: Johan JACQUEMIN	
11.15 - 11.30	Coffee break	
11.30 - 12.30	INNOVATION CHALLENGE: PART 1. PhD students pitch multidisciplinary solutions to global challenges. Judging Panel: MSN faculty and guest experts	
12.30 - 14.00	Lunch	

SESSION B	MSN - MATERIALS SCIENCE & NANOTECHNOLOGY	AMPHITHEATER IBN ROCHD
14.00 - 15.15	Toni NIJM 'SHAPING OUR FUTURE THROUGH DISRUPTIVE INNOVATIONS' Discussion with the speaker / audience Q&A. Moderator: Jones ALAMI	
15.15 - 15.30	Coffee break	
15.30 - 17.00	INNOVATION CHALLENGE: PART 2 PhD students continue pitching multidisciplinary solutions to global challenges, with their work evaluated by faculty and guest experts. AWARDS for the most innovative ideas.	



SESSION C

COLLEGE OF AGRICULTURE

AMPHITHEATER 2017

9.00 - 9.30

Welcome of the public

9.30 - 10.15

Ken GILLER 'ACHIEVING FOOD SECURITY IN AFRICA — WHILE SAVING SCIENCE FROM POPULISM'

10.15 - 10.30

Q&A

10.30 - 10.45

Coffee break

10.45 - 12.15

Session 1 **'AGROECOLOGY'**

Jill LENNE, Ken GILLER, Rachid MOUSSADEK, Yohan SIX, Bruno GÉRARD

Modération **Rachid SERRAJ**

12.15 - 14.00

Lunch



SESSION D

COLLEGE OF AGRICULTURE

AMPHITHEATER 2017

14.00 - 15.30

Session 2 **'AGRITECH AND DIGITAL DIVIDE'**

Parmesh SHAH, Ken LOHENTO, Faissal SEHBAOUI, Abdelghani CHEHBOUNI

Modération: **M. EL BOUHSSINI**

15.30 - 15.45

Coffee break

15.45 - 17.45

Session 3 **'OUTCOME OF WGS PHD STUDENTS AND PDFS'**

Modération: **Ali EL BATAY**



SESSION E

IST&I - INSTITUTE OF SCIENCE, TECHNOLOGY & INNOVATION

ASNI AMPHITHEATER

09.00 - 09.30

Welcome Speech IST&I
by **Redouane BENIAZZA**

09.30 - 10.00

Asmae BOUSFIHA 'PAST, PRESENT AND FUTURE: A CALL FOR A CHANGE TOWARD SUSTAINABILITY'

10.00 - 11.00

Keynote: **Sami LAKHDAR**: 'SHAPING THE FUTURE OF PHOSPHORUS CHEMISTRY THROUGH VISIBLE LIGHT' - Moderation: **Idir BENAÏSSA**

11.00 - 11.15

Coffee break

11.15 - 12.00

Debate focusing on Sustainable Phosphorus Chemistry. State of the art and future perspectives.
Sami LAKHDAR, Idir BENAÏSSA, Jamal AIT BRAHIM and **Amal MERROUNE**

12.00 - 12.30

PhD students MT180: **THE IMPACT OF THEIR PROJECTS ON SHAPING MOROCCO'S FUTURE.**

12.30 - 14.00

Lunch

14.00 - 14.45

Kaoutar SEFRIOUI: 'SMART CHEMISTRY: AI DRIVEN DISCOVERIES AND THEIR FUTURE APPLICATIONS'

14.45 - 15.30

Nils HANEKLAUS

15.30 - 16.15

Bouchaib MOUHSINE
Moderator: **Jamal AÏT BRAHIM**

16.15 - 16.30

Coffee break

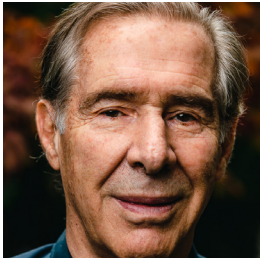
16.30 - 17.30

PhD students MT180: **THE IMPACT OF THEIR PROJECTS ON SHAPING MOROCCO'S FUTURE.**

NB: IST&I's stand, at the "village scientifique", will display a pilot.



SESSION A	ISE - INSTITUT DES SCIENCES DE L'ÉDUCATION	ASNI AMPHITHEATER
09.00 - 09.30	Welcome of the public	
09.30 - 10.15	Dan REMENYI 'THE IMPACT OF AI IN HIGHER EDUCATION'	
10.15 - 11.00	Round-Table: 'WHAT SHOULD FUTURE AI ACADEMIC RESEARCH FOCUS ON?' with Dan REMENYI, Aziz MIMOUDI, Valéry PSYCHÉ, Abdelhadi SOUDI (The participants can then join the debate of FGSES on AI and Research in Economics)	

SESSION B	FGSES - FACULTÉ DE GOUVERNANCE, SCIENCES ÉCONOMIQUES ET SOCIALES	IGHLI AMPHI
'SCHUMPETER, L'ÉCONOMIE ET L'INTELLIGENCE ARTIFICIELLE'		
09.00 - 09.30	Welcome of the public	
09.30 - 10.00	Alexandre GEORGIEFF 'IA, QUELS IMPACTS SUR L'EMPLOI?'	
10.00 - 10.30	Pierre-Noël GIRAUD 'IA, UNE ANALYSE SCHUMPETERIENNE'	
10.30 - 11.00	Debate (Larabi JAÏDI, Hamid BOUCHIKHI, Farouk NOURI ...)	
11.00 - 11.15	Pause Café	
11.15 - 11.45	Ahmed TRITAH 'COMMENT L'IA A CHANGÉ LA RECHERCHE EN ÉCONOMIE'	
11.45 - 12.30	General discussion	

SESSION C	EMINES	EMINES BUILDING
'L'AVENIR DÉFINI PAR CEUX QUI LE VIVRONT'		
09.00 - 09.30	Accueil des participants	
09.30 - 10.00	PRÉAMBULE : Description of the educational exercise that led to today's presentations	
10.00 - 12.00	Interventions (each intervention will be presented by a group of 5 to 6 students from the first four years of the preparatory and engineering cycles of EMINES)	
	1) "Introduction (and guiding thread) : Sur le chemin de la 5e révolution industrielle" 2) "When computers write mathematical proofs" 3) "Les COBOTS - une nouvelle relation homme-machine" 4) "Le monde de demain vu au travers de lunettes intelligentes" 5) "Le bio-mimétisme au service de l'optimisation des Supply Chain" 6) "Les techniques d'impression 4D appliquées à la bio-fabrication d'organes" 7) "Comment l'outil moléculaire CRISPR-Cas9 va éradiquer la malaria" 8) "Le calcul quantique appliqué à la prédiction des crises financières" 9) "L'économie à l'épreuve des changements climatiques"	

SESSION D

MAHIR / CULTUR.ED

NEW TEACHING CENTER

'YOUTH IMAGINING THE FUTURE'

10.00 - 12.00

"IMAGINING THE FUTURE (PART 1): Award ceremony of the storytelling contest Short videos contest winner's announcement

Screening of the best short videos & discussion with the videographers Artistic performances by Cultur.Ed participants

"IMAGINING THE FUTURE (PART 2):

Award ceremony of the storytelling contest "Imagining the Future" Creative writing contest winner's announcement

14.30 - 17.00

Artistic performances by Cultur.Ed participants

"IMAGINING THE FUTURE (PART 3):

Collective reading of the best creative writing stories & discussion with the authors

Visit of the NABNI#6 exhibition on "Stories & Us".

SESSION E.

ECOLE 1337

ASNI AMPHITHEATER

'SHAPING/CODING THE FUTURE'

14.30 - 15.00

Ayman BIRI: 'CODING THE FUTURE / THE FUTURE OF CODING'

15.00 - 17.00

Debate with students

NB: 'THE SCI EXPERIMENT'

During the whole week, the School of Collective Intelligence will run an experiment about INNOVATION. A nice way for participants to take part in science while at the event.

CLOSING CEREMONY
AMPHITHEATER 2017

14.00 - 14.30

Welcome of the public

SCI - School of Collective Intelligence

14.30 - 15.15

Daniel ANDLER: 'QUEL AVENIR POUR L'INTELLIGENCE HUMAINE AU SIÈCLE DE L'IA?'

15.15 - 16.00

Debate with the representatives of the departments (**Daniel ANDLER, Raphaël LIOGIER, Abdellatif LAROUÏ, Manal EL AKROUCHI, Ikram CHAIRI, Émile SERVAN-SCHREIBER**)

16.00 - 17.30

TEAM SCIENCE WEEK

Preliminary interdisciplinary debate for SW2026

Débat avec les représentants des départements

Moderated by **Raphael LIOGIER** and **Fouad LAROUÏ**,
on the topic: **'IS NBIC CONVERGENCE SHAPING THE FUTURE?'**

The history of science can be divided into 3 main phases. First phase: confusion between magic, religion and science. Second phase: those fields (magic, religion and science) separate + (starting in the 18th century) science itself divides into increasingly specialized disciplines. Third phase: For some decades now, there is a new phase of convergence between scientific disciplines. Some authors call it NBIC convergence: Nanotechnology, Biotechnology, Information technology and Cognitive Science. For instance: biology makes use of information technology; Artificial Intelligence can be understood in biological terms (through the logic of neural networks), etc. This new paradigm of convergence may become the fundamental features of future science. Therefore, all UM6P's departments are invited to take part in this round-table to discuss this new reality and better prepare SW2026. (NB: CONVERGENCE(S) will be the main theme of SCIENCE WEEK 2026.)

17.30 - 18.30

COCKTAIL DE CLÔTURE DE SCIENCE WEEK 2025
