



17-21 October 2022
ONSITE - WUST Campus, Wrocław



Wrocław University
of Science and Technology

Materials Engineering - from modelling to application (MEMO)

NAWA STER WUST summer/winter school program, school chair: Adrian Chajec

How to prepare scientific papers?

17.10.2022 Day 1



Wrocław University
of Science and Technology

8:00 - 8:30 Registration

8:30 - 8:45 Opening ceremony - prof. Danuta Bryja, Dean of the Civil Engineering Faculty, WUST

8:45 - 9:05 Getting funding in materials engineering: challenges and perspectives - prof. Łukasz Sadowski, WUST

1st lecturer: Prof. John Provis,
University of Sheffield



Scientific papers in materials engineering

9:05 - 10:35 Significance of background of publishing - lecture part I (1x1,5h)

10:35 - 11:00 Break

11:00 - 12:30 Significance of background of publishing - lecture part II (1x1,5h)

12:30 - 13:30 Break

13:30 - 14:00 Guest lecturer: Dr Andrzej Żak, WUST

How are materials engineering papers reviewed and published?

14:00 - 15:30 Publishing process from submitting to publishing - lecture (1x1,5h)

15:30 - 16:00 Break

16:00 - 17:30 How your paper is good? - lecture (1x1,5h)

Modelling of materials

18.10.2022 Day 2



UNIVERSITÀ
DELLA CALABRIA



2nd lecturer: Dr Leonardo Leonetti, University of Calabria

Computational models for geometric nonlinear analysis

9:00-11:00 Fundamental theory and models implementations - lecture part I (1x2,0h)

11:00 - 11:30 Break

11:30 - 12:00 Guest lecturer: Machine learning in evaluation of the properties of cementitious composites - Dr Sławomir Czarnecki, WUST

12:00 - 14:00 Fundamental theory and models implementations - lecture part II (1x2,0h)

14:30 - 16:00 1st and 2nd grade Student Event - poster session (NewWay student research club)

19.10.2022 Day 3

2nd lecturer: Dr Leonardo Leonetti, University of Calabria

9:00 - 11:00 FEM code implementation in practise - FEM training - lecture (1x2,0h)

11:00 - 11:15 Break

Applications of materials

19.10.2022 Day 3



Technische
Universität
Braunschweig



3rd lecturer: Dr Bartłomiej Sawicki,
TU Braunschweig

Ultra High Performance Fibre Reinforced Cementitious composites

11:15 - 13:15 History and material formulation - lecture (1x2,0h)

13:15 - 14:00 Break

14:00 - 16:00 Material and structural properties - lecture (1x2,0h)

16:00 - 16:30 Guest lecturer: Using Oil Refinery Wastes as a supplement for Cement and Aggregate in Concrete - Dr Paweł Niewiadomski, WUST

16:30 - 16:45 Break

16:45 - 18:45 Application of material - lecture (1x2,0h)

Modelling of materials

20.10.2022 Day 4



4th lecturer: Dr Neven Ukrainczyk, TU Darmstadt

Numerical Methods for PDEs in Octave/Matlab

9:00 - 10:30 Fundamental theory - lecture part I (1x1,5h)

10:30 - 11:00 Break

11:00 - 12:30 Fundamental theory - lecture part II (1x1,5h)

12:30 - 13:00 Break

13:00 - 14:30 Case study and implementations - lecture part I (1x1,5h)

14:30 - 15:30 Break

15:30 - 17:00 Case study and implementations - lecture part II (1x1,5h)

17:00 - 17:30 Guest lecturer: Practical Hints and Tips for a MSCA Postdoctoral Fellowships applications - prof. Paweł Sikora, ZUT Szczecin

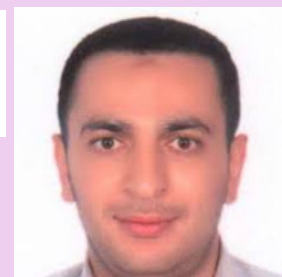
17:30 - 18:00 Guest lecturer: Graphene-engineered cementitious composites - Dr Murugan Muthu, WUST

Applications of materials

21.10.2022 Day 5



Mansoura
University



5th lecturer: Prof. Mohamed Abd Elrahman,
Mansoura University

Sustainable construction materials

9:00 - 10:30 Ultra-lightweight materials - lecture part I (1x1,5h)

10:30 - 11:00 Break

11:00 - 12:30 Ultra-lightweight materials - lecture part II (1x1,5h)

12:30 - 13:00 Break

13:00 - 14:30 Utilization of industrial solid wastes - lecture part I (1x1,5h)

14:30 - 15:30 Break

15:30 - 16:00 Guest lecturer: Development and characterization of Eco-friendly ultra high performance mortar using recycled steel fiber and spent catalyst - Dr Hassan Abdolpour, WUST

16:00 - 17:30 Utilization of industrial solid wastes - lecture part II (1x1,5h)

Visit our website!

<https://k82.pwr.edu.pl/dydaktyka/memo---szkola-zimowa>

Any questions? Please feel free to ask: adrian.chajec@pwr.edu.pl

Sign in on our event!

<https://forms.gle/M5vPgNVLZVp6Y3mw7>

SIGN UP NOW

