



**First International Summer School on
ENGINEERING COMPUTER MODELING
4 – 15 July 2016
MEPhI, Moscow, Russia**

The School on “Engineering computer modeling” is a certificate course aiming to provide specialized education and training on mathematical modeling of physical processes. It also addresses the issue of multiple simultaneous physical phenomena modelling (Multiphysics). The course introduces modern Russian engineering codes (MCU, FlowVision, Fidesys) and focuses on the application of the codes for various problems solving (simple and complex). The culmination of the School is calculation of Multiphysics problem (neutronics - thermal hydraulics - thermal mechanics).

School structure: First week – one theoretical session and three sessions of programs (MCU, FlowVision, Fidesys). Second week – training and exercises with consultations (calculation of Multiphysics problem).

Engineering codes: CFD code FlowVision deals with issues of aero- and hydrodynamics. CAE-system Fidesys is aimed to perform analysis of firmness. MCU – on modelling of radiation transport (neutrons, gamma radiation, electrons, positrons) in three-dimensional media with the use of Monte-Carlo method.

Participants: Young professionals and PhD students from nuclear field or/and involved in computer modeling of physical processes (under 35 years old).

Working language: English.

Participation is free of charge.

ORGANIZERS

- MEPhI mephi.ru/eng/
- TESIS tesis.com.ru/
- FIDESYS cae-fidesys.com/ru
- MCU mcuproject.ru/

REGISTRATION

1 March – 30 April, 2016

NOTIFICATION

till 15 May, 2016

DURATION

4 – 15 July, 2016

CONTACTS

Georgy Tikhomirov, dean of
Physical-technical faculty,
National Research Nuclear
University “MEPhI”
31 Kashirskoe Shosse, 115409,
Moscow, Russia

EMAIL

GVTikhomirov@mephi.ru
Rynatb@gmail.com

TELEPHONE

+7 495 788 56 99 (ext. 8441)
+7 925 846 28 14 (mobile)

APPLICATION FORM

- 1 Full name** _____
- 2 Place of Birth** _____
- 3 Date of Birth** _____
- 4 Nationality** _____
- 5 Present Institution** _____
- 6 Institution address** _____
- 7 Contact email & tel.** _____
- 8 Education** _____
- 9 Area of Research** _____
- 10 Languages & level** _____
(mother tongue; basic, intermediate,
advanced level) _____
- 11 Computer codes,
programming languages** _____
- 12 Reason for participation** _____

- 13 Additional information** _____

Please send the above form to rynath@gmail.com, email topic: ECM School.