**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)

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11. Computer codes, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

programming languages \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. Reason for participation

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13. Additional information

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**Second International Summer School on**

**ENGINEERING COMPUTER MODELING**

**3 – 14 July 2017**

**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, Logos) and focuses on the application of the codes for various problems (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 four sessions of programs (MCU, FlowVision, Fidesys, Logos). 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 – modelling of radiation transport (neutrons, gamma radiation, electrons, positrons) in three-dimensional media with the use of Monte-Carlo method. Logos is a package of software, which allows simulating aerodynamic processes, hydro and gas dynamics, distribution of heat in solids, radiation transfer, and flow in porous media.

**Participants:** Young professionals, postgraduates (master’s and doctoral students) from nuclear field or/and involved in computer modeling of physical processes (under 35 years old).

**ORGANIZERS**

• MEPhI : mephi.ru/eng/

• TESIS tesis.com.ru/

• FIDESYS cae-fidesys.com/ru

• MCU mcuproject.ru/

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