

**Society for Structural Integrity and Life (DIVK)
Belgrade Chamber of Economy
GOŠA Insitute
Faculty of Technology and Metallurgy**

organize Workshop

New Trends in Fracture Mechanics Application

as a satelite event after Eight International Fracture Mechanics Summer School (IFMASS 8)

European Union and its institutions in many cases support the organization of workshops, devoted to specific topics. Taking into account further cooperation in South-East Europe, supported by EU, and proposed establishment of Forum for structural integrity in this region, workshops can be convenient form for the cooperation. The Forum will organize the activity toward and on the benefit of the industry, as it is the case with Society for Structural Integrity and Life (DIVK) in Serbia and Montenegro. IFMASS 8 will be the place for meeting of experts in structural integrity and fracture mechanics, not only from South-East Europe, offering the possibility to start with organization of workshops. Up to thirty experts in fracture mechanics and structural integrity assessment from all countries of the region are invited to take part in the Workshop.

Belgrade Chamber of Economy, Belgrade, Kneza Miloša 12 will be the host of the Workshop

The interest of practical application of fracture mechanics is extended in last years to many new sectors. Three of them are selected for this Wrokshop and the world known experts in the field are invited to present state of the art and govern the discussion.

Section A: Development of Ceramic Matrix Composites (CMC)

Dr. Petar Agatonovic, Germany, will present the development of CMC for high temperature application, interesting for the advancement in space program.

Section B: Mesoscopic approach of mechanical properties of materials

Prof. Guy Pluinage, University of Metz, Metz, France proposed European project under given title. It is assumed that after material science approach based on “micro to macro”, future developments in material science in general, and of nano and multi materials in particular, need a new paradigm mainly based on mesoscopic approach, in order to solve the problem of transferability of mechanical properties.

Section C: Fracture of composites and sandwich structures

Prof. Emmanuel Gdoutos, Democritus University of Thrace, Xanti, Greece, and Northwestern University, Chicago, U.S.A., will consider the problem of fracture of composite materials and sandwich structures, very important aspect in civil engineering.

Timetable

Section A: Friday, 27th June, 15.00

Section B: Friday, 27th June, 17.00

Friday, 27th June, 20.00 Joint dinner for workshop participants

Discussion Section A – Section B, Saturday, 28. June, 9.00

Section C (with discussion): Saturday, 28th June, 10.15