

# Scientific Meeting in Memory of Professor Józef Joachim Telega

IPPT (Institute of Fundamental Technological Research), Warsaw, Poland,

March 5, 2025, meeting time from 03:00 p.m. – 07:00 p.m. of Warsaw time.

## SCHEDULE OF LECTURES

03:00 p.m.	Opening Barbara Gambin and Tomasz Lewiński	Short opening. Some words about the life and outcome of Joachim Telega
03:10 p.m.	Dieter Weichert	Joachim Telega- in memoriam
03:30 p.m.	Meir Shillor	The new damped normal compliance contact condition and applications
03:50 p.m.	Andrej Cherkaev	Optimal multimaterial composites: the structure of fields, bounds, laminates, and rank-one envelope
04:10 p.m.	Elena Cherkaeva	Stieltjes analytic representation of effective properties of composites: Forward and inverse homogenization.
04:30 p.m.	Graeme Milton	Bounds on the complex permittivity and quality factors of two-phase composites
04:50 p.m.	BREAK	
05:10 p.m.	Gennady Mishuris	Upscaling the toughness due to its periodic variation. Case study: hydraulic fracture
05:30 p.m.	Mircea Sofonea	Well-posedness concepts in nonlinear analysis and contact mechanics
05:50 p.m.	Grzegorz Dzierżanowski and Andrej Cherkaev	Optimum structures made of two isotropic materials and void
06:10 p.m.	Stanisław Jemioło	Two families fiber reinforced hyperelastic material model
06:30 p.m.	Tomasz Lewiński	Topology optimization of structures. Overview of results found by the team: Karol Bołbotowski, Sławomir Czarnecki, Radosław Czubacki, Grzegorz Dzierżanowski, Cezary Graczykowski, Krzysztof Kolanek, Michał Kursa, Tomasz Lewiński, Tomasz Łukasiak, Przemysław Sobczak, Tomasz Sokół.
06:50 p.m.	Barbara Gambin	$\Gamma$ -convergence, Padé approximants, asymptotic expansions in various homogenization issues. Overview of results found by the team: Włodzimierz Bielski, Andrzej Gałka, Barbara Gambin, Eleonora Kruglenko, Stanisław Tokarzewski, Ryszard Wojnar