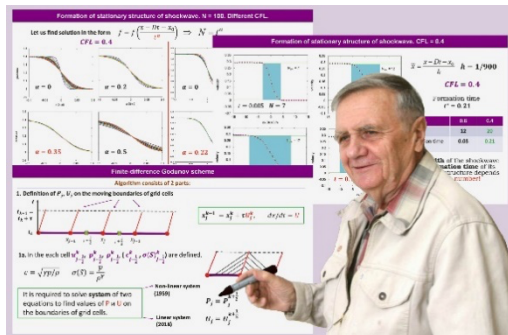


Colloquium in memory of Serguei Godunov, LMA, 4 impasse Nikola Tesla, 13013 Marseille,

30th Novembre-1st December, 2023



Organizing Committee :

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Program of the Colloquium

Thursday, 30th November, 2023

8:30-9:00 Registration and opening

9:00-9:10 Opening remarks

9:10-10:00 (Chair S. Gavriluk) E. Toro (University of Trento) The FORCE scheme for first-order systems

10:00-10:30 Coffee break

10:30-11:20 (Chair R. Abgrall) R. Herbin (Aix-Marseille University) Staggered schemes and the Lax-Wendroff-Godunov theorem

11:20-12:10 I. Peshkov (University of Trento) SHTC class of equations for continuum mechanics: from 1961 to now

12:10-14:00 Lunch

14:00-14:50 (Chair C.-D. Munz) M. Ricchiuto (INRIA, Bordeaux) Back and forth from conservative fluxes to residuals to construct conservative and steady state preserving multidimensional schemes

14:50-15:20 M. Dumbser (University of Trento) On thermodynamically compatible finite volume schemes for overdetermined hyperbolic systems

15:20-16:10 Coffee break

16:10-17:00 (Chair P. - H. Maire) R. Saurel (Aix-Marseille University) Relaxation method to simplify computations with complicated equations of state in hyperbolic solvers

Friday, 1st December, 2023

9:00-9:50 (Chair T. Toro) R. Abgrall (University of Zurich) Staggered schemes for compressible flow: a general construction

9:50-10:30 Coffee break

10:30-11:20 (Chair H. Guillard) B. Despres (Sorbonne University) A story on Voronoi cells, Lagrangian equations and the acoustic Godunov scheme.

11:20-12:10 W. Boscheri (Università degli studi di Ferrara) A geometrically and thermodynamically compatible finite volume scheme for continuum mechanics on unstructured Voronoi meshes

12:10-14:00 Lunch

14:00-14:50 (Chair A. Renaud) P. - H. Maire (CEA CESTA) An Unconventional Divergence Preserving Finite-Volume Discretization of Lagrangian Ideal MHD

14:50-15:20 H. Guillard and B. Nkonga (Université Côte d'Azur) Godunov-type methods for hyperbolic systems, geometrically constrained: MHD and SSW

15:20-16:10 Coffee break

16:10-17:00 (Chair N. Favrie) C. - D. Munz (University of Stuttgart) The Riemann problem with phase transition

End of the Colloquium