

3rd Annual SU2 Developers Meeting

September 16th-18th, 2018

University of Strathclyde, Scottish Universities Insight Institute (SUII)
Glasgow, Scotland, UK



Meeting Agenda of Sunday September 16th

0900 – 0915: **Welcome & Agenda**

0915 – 1045: **Introduction to developing in SU2**, covering high level class design, how to modify the code, working with GitHub (branching, PRs, regressions), etc.

1045 – 1615: **Hack session**, Separate groups working on various problems (lunch and snacks/coffee offered in the room while working)

1615 – 1700: **Wrap-up Presentations**, Two-slide presentations on major progress for the day, including discussion

1730 – open: **Social at “The Counting House,”** 2 St Vincent Place, G1 2DH

Meeting Agenda of Monday September 17th

0800 – 0830: **Welcome & Year in Review**, T. Economon (Bosch), J.J. Alonso (Stanford)

0830 – 0900: **SU2-NEMO - Thermochemistry and high-Mach aerothermodynamics**, M. Fossati (U. of Strathclyde), T. Magin, J.B. Scoggins, M. Pini, P. Colonna, R. Sanchez, T. Economon, D. Mayer, N. Beishuizen, C. Garbacz-Gomes, W.T. Meier, J.J. Alonso, T. van der Stelt

0900 – 0930: **Toward optimization for reactive flows in SU2**, N. Beishuizen (Bosch), D. Mayer, T. Economon

0930 – 1000: **Conjugate heat transfer problems and computing coupled discrete adjoints using AD**, O. Burghardt (TU Kaiserslautern), T. Albring, N. Gauger

1000 – 1030: **Coffee break**

1030 – 1100: **Physics-based RANS model-form UQ in SU2**, J. Mukhopadhyaya (Stanford), A. Mishra, J.J. Alonso, G. Iaccarino

1100 – 1130: **Aeroacoustics prediction and optimization capabilities in SU2**, B. Zhou (NIA/NASA-Langley), T. Albring, N. Gauger, C. Ilario, T. Economon, J.J. Alonso, L. V. Lopes, H. Yao, S. Peng, L. Davidson

1130 – 1200: **Higher-order SU2: DG-FEM solver and WENO-FV solver with LES/ILES/WMLES applications**, E. van der Weide (U. of Twente), J.J. Alonso, D. Drikakis, K. Singh, P. Urbanczyk, E. Molina, J.H. Choi

1200 – 1300: **Lunch**

1300 – 1330: **Unsteady optimization with SU2: application to turbomachinery design**, A. Rubino (TU Delft), M. Pini, N. Anand, P. Colonna

1330 – 1400: **Preliminary results on rotor-fuselage aerodynamics using SU2: status and challenges**, M. Morelli (Politecnico di Milano), G. Gori, A. Guardone

1400 – 1430: **Anisotropic mesh adaptation with the INRIA AMG library**, A. Loseille (INRIA), V. Menier, B. Munguia, J.J. Alonso

1430 – 1500: **Coffee break**

1500 – 1530: **Simulation and adjoint-based design for variable density incompressible flows with heat transfer**, T. Economon (Bosch)

1530 – 1600: **Implementation of pressure-based Navier-Stokes for wind energy applications**, A. Ravishankara (ECN part of TNO), H. Ozdemir, E. van der Weide

1600 – 1630: **SU2-IDS: International Developers Society**, T. Albring, R. Sanchez (TU Kaiserslautern), T. Economon, F. Palacios

1630 – 1700: **Wrap Up**, J.J. Alonso (Stanford)

In order to participate (in-person or virtually), please register for the meeting by following the link on the SU2 home page (<https://su2code.github.io>).

*Please note that all stated times are British Summer Time (BST). **The presenting author is underlined.



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