

Third International Workshop on High-Order CFD Methods
Sponsored by NASA, ARO (Army Research Office), DLR, and AIAA Fluid Dynamics TC

January 3-4, 2015

Location: Miami 1/2/3 (Note the room change)

Gaylord Palms Hotel & Convention Center
6000 West Osceola Parkway
Kissimmee, Florida 34746 USA

Agenda (time slots are approximate)

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January 3, 2015

7:15-8:30 AM Registration

7:30-8:15 AM Continental breakfast

8:30-8:40 Welcome remark

C1.1 Transonic Ringleb flow - Chaired by H. T. Huynh and S. Spiegel

8:40-8:45 AM Case description

8:45-8:50 AM Chris Fidkowski (Michigan)

8:50-8:55 AM David Friedlander (NASA Glenn)

8:55-9:00 AM Giangaspero, van der Weide, Svard, Carpenter, Mattson (Twente)

9:00-9:05 AM Jean-Marie Le Gouez (ONERA)

9:05-9:10 AM Antonio Garcia-Uceda (NUMECA)

9:10-9:25 AM Case summary

C1.2 Flow over the NACA0012 airfoil - Chaired by G. May

9:25-9:30 AM Case description

9:30-9:35 AM Aravind Balan, Georg May, and Michael Woopen (Aachen)

9:35-9:40 AM Shun Zhang and Chris Fidkowski (Michigan)

9:40-9:45 AM Giangaspero, van der Weide, Svard, Carpenter, Mattson (Twente)

9:45-9:50 AM Takanori Haga, Seiji Tsutsumi, and Eiji Shima (JAXA)

9:50-9:55 AM Nicolas Ringue, Brian C. Vermeire, and Siva Nadarajah (McGill)

9:55-10:00 AM Andrea Ferrero and Francesco Larocca (Torino)

10:00-10:05 AM Peter Eliasson, Jan Nordström, and Marco Kupiainen (Swedish Def.R.A.)

10:05-10:10 AM Lei Shi and Z. J. Wang (Kansas)

10:10-10:15 AM Antonio Garcia-Uceda (NUMECA)

10:30-10:45 AM Case summary

10:45-11:05 AM Coffee Break

C1.3 Flat plate boundary layer - Chaired by M. Galbraith and D. Darmofal

- 11:05-11:10 AM Case description
- 11:10-11:15 AM Farshad Navah, Brian C. Vermeire, and Siva Nadarajah (McGill)
- 11:15-11:20 AM Johann Dahm and Chris Fidkowski (Michigan)
- 11:20-11:25 AM Michael Woopen, Aravind Balan, and Georg May (Aachen)
- 11:25-11:30 AM Andrea Ferrero and Francesco Larocca (Torino)
- 11:30-11:35 AM Lei Shi and Z. J. Wang (Kansas)
- 11:35-11:50 AM Case summary

11:50 AM-1:30 PM Lunch Break

C1.4 Vortex transport by uniform flow - Chaired by D. Caraeni

- 1:30-1:35 PM Case description
- 1:35-1:40 PM David Friedlander (NASA Glenn)
- 1:40-1:45 PM Philip Zwanenburg, Brian C. Vermeire and Siva Nadarajah (McGill)
- 1:45-1:50 PM Shun Zhang and Chris Fidkowski (Michigan)
- 1:50-1:55 PM Giangaspero, van der Weide, Svard, Carpenter, Mattson (Twente)
- 1:55-2:00 PM Florent Renac and Raphaël Blanchard (ONERA)
- 2:00-2:15 PM Case summary

C2.1 Turbulent flow over a RAE airfoil - Chaired by K. Fidkowski

- 2:15-2:20 PM Case description
- 2:20-2:25 PM Giangaspero, van der Weide, Svard, Carpenter, Mattson (Twente)
- 2:25-2:30 PM Johann Dahm and Chris Fidkowski (Michigan)
- 2:30-2:45 PM Case summary

2:45-3:10 PM Coffee Break

C2.2 Delta wing at low Reynolds number - Chaired by R. Hartmann

- 3:10-3:15 PM Case description
- 3:15-3:20 PM Chris Fidkowski (Michigan)
- 3:20-3:25 PM Xiaodong Liu and Hong Luo (NC State)
- 3:25-3:30 PM Michael Woopen, Aravind Balan, and Georg May (Aachen)
- 3:30-3:45 PM Case summary

C2.3 Heaving and Pitching Airfoil - Chaired by P. Persson and K. Fidkowski

- 3:45-3:50 PM Case description
- 3:50-3:55 PM Daniel J. Garmann and Miguel R. Visbal (AFRL)
- 3:55-4:00 PM Jean-Marie Le Gouez (ONERA)
- 4:00-4:05 PM Michael Wurst, Manuel Kessler, and Ewald Krämer (Stuttgart)
- 4:05-4:10 PM Alejandro Figueroa (Argentina)
- 4:10-4:15 PM Caleb Yow and Chunlei Liang (George Washington)
- 4:15-4:20 PM Chris Fidkowski (Michigan)
- 4:20-4:25 PM Per-Olof Persson (Berkeley)
- 4:25-4:40 PM Case summary

January 4, 2015

7:30-8:15 AM Continental breakfast

C3.1 Turbulent flow over a multi-element airfoil – Chaired by M. Ceze

8:30-8:35 AM Case description

8:35-8:40 AM Marco Ceze and Chris Fidkowski (Michigan)

8:40-8:45 AM Marcel Wallraff and Tobias Leicht (DLR)

8:45-8:50 AM Michael Wurst, Manuel Kessler, and Ewald Krämer (Stuttgart)

8:50-8:55 AM A.F. Antoniadis, Z. Rana, P. Tsoutsanis, D. Drikakis (Cranfield)

8:55-9:10 AM Case summary

C3.2 Turbulent flow over DPW III wing – Chaired by K. Fidkowski

9:10-9:15 AM Case description

9:15-9:20 AM Marco Ceze and Chris Fidkowski (Michigan)

9:20-9:25 AM Michael Brazell and Dimitri J. Mavriplis (Wyoming)

9:25-9:35 AM Case summary

C3.3 Direct Numerical Simulation of the Taylor-Green Vortex – Chaired by K. Hillewaert)

9:40-9:45 AM Case description

9:45-9:50 AM Laslo Diosady and Scott M. Murman (Ames)

9:50-9:55 AM A. Mastellone, Francesco Capuano, S. Di Benedetto, and L. Cutrone (CIRA)

9:55-10:00 AM Brian Vermeire, Freddie Witherden, and Peter Vincent (Imperial College London)

10:00-10:05 AM Xiaodong Liu and Hong Luo (NC State)

10:05-10:10 AM Giangaspero, Van der Weide, Svard, Carpenter, Mattson (Twente)

10:10-10:15 AM Michael Brazell and Dimitri J. Mavriplis (Wyoming)

10:15-10:20 AM Philip Zwanenburg, Brian C. Vermeire and Siva Nadarajah (McGill)

10:20-10:25 AM Andrea D. Beck (Stuttgart)

10:25-10:30 AM Daniel J. Garmann and Miguel R. Visbal (AFRL)

10:30-10:45 AM Case summary

10:45-11:05 AM Coffee Break

C3.4 DNS and LES of flow over 2D periodic hill –Chaired by C. C. de Wiart

11:05-11:10 AM Case description

11:10-11:15 AM Laslo Diosady and Scott M. Murman (Ames)

11:15-11:20 AM Marta de la Llave Plata and Vincent Couaillier (ONERA)

11:20-11:25 AM Daniel J. Garmann and Miguel R. Visbal (AFRL)

11:25-11:30 AM Corentin Carton de Wiart, Koen Hillewaert (Cenaero)

11:30-11:35 AM Jonathan Bull and Antony Jameson (Stanford)

11:35-11:40 AM Andrea D. Beck, David Flad, Thomas Bolemann, Claus-Dieter Munz (Stuttgart)

11:40-11:45 AM A.F. Antoniadis, Z. Rana, P. Tsoutsanis, D. Drikakis (Cranfield)

11:45-11:59 AM Case summary

12:00-2:00 PM Lunch Break

C3.5 CRM Wing/Body – Chaired by T. Leicht

2:00-2:05 PM Case description

2:05-2:10 PM Marco Ceze and Chris Fidkowski (Michigan)

2:10-2:15 PM Case summary

C3.6 Shock Wave/Boundary Layer Interaction – Chaired by V. Couaillier

2:15-2:20 PM Case description

2:20-2:25 PM Florent Renac and Vincent Couaillier (ONERA)

2:25-2:30 PM Case summary

Discussion on flow over a circular cylinder

2:30-2:40 PM Andrea Beck (Stuttgart)

2:40-2:50 PM Brian Vermeire (Imperial College London)

2:50-4:00 General Conclusions and Discussion