2nd International Workshop on High-Order CFD Methods

May 27 – 28, 2013, Cologne, Germany

Agenda

Monday, May 27, 2013

	7:30	**Registration**	
	8:30	**Opening**	N. Kroll, Z.J. Wang
C1.1	**Internal inviscid flow over a smooth bump**		
	8:40	D. de Santis	INRIA
	8:45	D. de Santis, R. Abgrall	INRIA
	8:55	D. Fernandez, P. Boom, D. Zingg, J. Hicken	University of Toronto
	9:05	A. Ferrero, F. Larocca	Politecnico di Torino
	9:15	A. Belan, G. May, J. Schütz, M. Woopen	RWTH Aachen
	9:25	E. van der Weide, M. Svärd, G. Giangaspero	University of Twente
	9:35	M. Ceze, K. Fidkowski	University of Michigan
	9:45	A. Garcia-Uceda, Th. Deconinck, C. Hirsch	NUMECA
	9:55	Case Summary	
	10:05	**Coffee Break**	
C1.2	**Transonic Ringleb flow**		
	10:15	E. van der Weide	University of Twente
	10:20	D. Fernandez, P. Boom, D. Zingg, J. Hicken	University of Toronto
	10:30	A. Ferrero, F. Larocca	Politecnico di Torino
	10:40	A. Belan, G. May, J. Schütz, M. Woopen	RWTH Aachen
	10:50	E. van der Weide, M. Svard, G. Giangaspero	University of Twente
	11:00	M. Ceze, K. Fidkowski	University of Michigan
	11:10	Case Summary	
C1.3	**Flow over the NACA0012 airfoil, inviscid and viscous, subsonic and transonic**		
	11:20	G. May	RWTH Aachen
	11:25	A. Belan, G. May, J. Schütz, M. Woopen	RWTH Aachen
	11:35	E. van der Weide, M. Svärd, G. Giangaspero	University of Twente
	11:45	M. Ceze, K. Fidkowski	University of Michigan
	11:55	M. Kupiainen, J. Nordström, P. Eliasson	Linköping University
	12:05	M. Kompenhans, E. Ferrer, E. Valero	UPM Madrid
	12:15	P. Outtier, P. Cinnella	DynFluid
	11:25	A. Garcia-Uceda, Th. Deconinck, C. Hirsch	NUMECA
	12:35	Case Summary	
	12:45	**Lunch Break**	
C1.4	**Flat plate boundary layer**		
	13:30	F. Bassi	University of Bergamo
	13:35	A. Belan, G. May, J. Schütz, M. Woopen	RWTH Aachen
	13:45	M. Ceze, K. Fidkowski	University of Michigan
	13:55	M. Kompenhans, E. Ferrer, E. Valero	UPM Madrid
	14:05	Case Summary	

C1.5 Radial expansion wave

14:15	A. Garcia-Uceda	NUMECA
14:20	D. Fernandez, P. Boom, D. Zingg, J. Hicken	University of Toronto
14:30	A. Garcia-Uceda, Th. Deconinck, C. Hirsch	NUMECA
14:40	Case Summary	

C1.6 Vortex transport by uniform flow

14:50	D. Caraeni	ADAPCO
14:55	A. Ferrero, F. Larocca	Politecnico di Torino
15:05	E. van der Weide, M. Svärd, G. Giangaspero	University of Twente
15:15	L. Diosady, S. Murman	NASA Ames
15:25	J.M. Le Gouez	ONERA
15:35	G. Puigt, N. Villedieu, J.F. Boussage	CERFACS
15:45	C. DeBartolo, A.Nigro, F. Bassi	University of Calabria, University of Bergamo
15:55	Case Summary	

16:05 **Coffee Break**

C2.1 Unsteady viscous flow over tandem NACA0012 airfoils with smooth initial condition

16:20	E. van der Weide, M. Svärd, G. Giangaspero	University of Twente

C2.2 Turbulent flow over a RAE airfoil

16:35	D. de Santis	INRIA
16:40	D. de Santis, R. Abgrall	INRIA
16:50	M. Ceze, K. Fidkowski	University of Michigan
17:00	S. Schoenawa, T. Leicht	DLR
17:10	Case Summary	

C2.3 Analytical 3D body of revolution

17:20	R. Hartmann	DLR
17:25	E. van der Weide, M. Svärd, G. Giangaspero	University of Twente
17:35	M. Ceze, K. Fidkowski	University of Michigan
17:45	P. Eliasson	FOI
17:55	J. Kudo, D. Darmofal, S. Allmaras	MIT
18:05	Case Summary	

C2.4 Delta wing at low Reynolds number

18:15	R. Hartmann	DLR
18:20	D. de Santis, R. Abgrall	INRIA
18:30	M. Ceze, K. Fidkowski	University of Michigan
18:40	J. Kudo, D. Darmofal, S. Allmaras	MIT
18:50	Case Summary	

19:00 **End of 1st day**

20:00 **Social event:** Dinner at local brewery “Früh”
(cash payment only, no credit cards)

Tuesday, May 28, 2013

C3.1 Turbulent flow over a multi-element airfoil

8:30	Z.J. Wang	Iowa State University
8:35	M. Ceze, K. Fidkowski	University of Michigan
8:45	I. Bosnyakov	TSAGI
8:55	F. Bassi , A. Ghidoni	University of Bergamo, University of Brescia
9:05	M. Wallraff	DLR
9:15	Case Summary	

C3.2 Turbulent flow over DPWIII Wing alone

9:25	M. Ceze, K. Fidkowski	University of Michigan
9:35	J. Kudo, D. Darmofal, S. Allmaras	MIT
9:45	Case Summary	
9:55	**Coffee Break**	

C3.3 Transitional flow over a SD7003 wing

10:05	M. Visbal	AFRL
10:10	D. Fernandez, P. Boom, D. Zingg, J. Hicken	University of Toronto
10:20	E. van der Weide, M. Svärd, G. Giangaspero	University of Twente
10:30	F. Bassi , A. Ghidoni	University of Bergamo, University of Brescia
10:40	D. Garmann, M. Visbal	AFRL
10:50	B. Zimmermann, Z.J. Wang	Iowa State University
11:00	H. Frank, A, Beck, Th. Bolemann, F. Hindelang	University of Stuttgart
11:10	Case Summary	

C3.4 2D laminar flapping wing case

11:20	P. Persson	Berkeley
11:25	M. Ceze, K. Fidkowski	University of Michigan
11:30	J.M. Le Gouez	ONERA
11:40	K. Liu, Y. Lu, C. You	Bejing University
11:50	M. Wurst, Th. Wille, M. Kessler	University of Stuttgart
12:00	B. Zhang, J. Wang, C. Liang	George Washington University
12:10	Case Summary	
12:20	**Lunch Break**	

C3.5 DNS of the Taylor-Green Vortex at Re=1600

13:10	K. Hillewaert	CENAERO
13:15	D. Fernandez, P. Boom, D. Zingg, J. Hicken	University of Toronto
13:25	E. van der Weide, M. Svärd, G. Giangaspero	University of Twente
13:35	L. Diosady, S. Murman	NASA Ames
13:45	D. Garmann, M. Visbal	AFRL
13:55	H. Luedeke	DLR
14:05	F. Spiering	DLR
14:15	P. Marin-Perez, P. Cinnella	DynFluid
14:25	K. Grimich, C. Content, P. Cinella	DynFluid
14:35	B. Choutier, B. Multe, M. Parsani	University of Michigan
14:45	C. Carton de Wiart, K. Hillewaert	CENAERO
14:55	Case Summary	
15:05	**Coffee Break**	

C3.6 DNS and LES of flow over 2D periodic hill

15:20	C. Carton de Wiart	CENAERO
15:25	H. Luedeke	DLR
15:35	D. Moxey, J. Peiro, S. Sherwin	Imperial College
15:45	C. Carton de Wiart, K. Hillewaert	CENAERO
15:55	Case Summary	

C3.7 DNS/LES of LP turbine

16:05	K. Hillewaert, G. Verheylewegen	CENAERO
16:15	Y. Lu, W. Dawes	Cambridge University
16:25	Case Summary	

C3.8 CRM wing/body

16:35	T. Leicht	DLR
16:40	M. Ceze, K. Fidkowski	University of Michigan
16:50	R. Hartmann	DLR
17:00	Case Summary	

17:10 **Final Discussion**

17:45 **End**