	Mon. 2 April 2012	Tue. 3 April 2012	Wed. 4 April 2012	Thu. 5 April 2012	Fri. 6 April 2012
09.00 - 10.00	*Registration and coffee*	Chair: **P. Geerlings** Plenary lecture **J.P. Perdew** *Density Functional Theory for the van der Waals Expansion*	Chair: **D. Van Neck** Plenary lecture **G.K.L. Chan** *Density matrix entanglement embedding for strongly correlated electronic structure*	Chair: **H. Chermette** Plenary lecture **W. Kutzelnigg** *Density Cumulant Functional Theory*	Chair: **M. Waroquier** Plenary lecture **J. Hutter** *Graphene and h-BN Monolayers on Metal Surfaces: Is DFT a Predictive Method?*
10.00 - 10.30	**Opening session**	*Coffee break*	*Coffee break*	*Coffee break*	*Coffee break*
10.30 - 11.30	Chair: **M.T. Nguyen** Plenary lecture **E.J. Baerends** *Molecular properties from density matrix response*	Plenary lecture **W. Yang** *Fractional Perspectives of Density Functional Theory*	Plenary lecture **D.A. Mazziotti** *Many-electron Correlation from Two-Electron Reduced Density Matrices*	Plenary lecture **S. Grimme** *Dispersion Corrected Density Functionals for the Thermochemical Properties of Large Molecules*	Plenary lecture **F. Neese** *Recent developments in Double Hybrid Density Functional Theory*
11.30 - 12.00	Invited lecture **K. Pernal** *Excitation energies of molecules from extended random phase approximation*	Invited lecture **A.M. Teale** *Exploring the Interface Between Wave function and Density-Functional Theories via the Adiabatic Connection*	Invited lecture **M. Piris** *Density Matrix Functional Theory of the Molecular Electronic Structure*	Invited lecture **E. Johnson** *Dispersion Interactions in Solids from the Exchange-Hole Dipole Moment Model*	Invited lecture **B. Champagne** *Old and New Issues on Using Density Functional Theory for Predicting and Interpreting Nonlinear Optical Properties*
12.00 - 14.00	***Lunch***	***Lunch***	***Lunch***	***Lunch***	**Concluding remarks (30') + Lunch**
14.00 - 15.00	Chair: **C. Van Alsenoy** Plenary lecture **A. Savin** *On choosing the best density functional approximation*	Chair: **V. Van Speybroeck** Plenary lecture **L. Radom** *DFT Calculations on Radicals*	Excursion *'Nibbling through Ghent'* *Starts at 15h00 sharp on Sint-Baafsplein in front of the NTGent theatre*	Chair: **A. Cedillo** Plenary lecture **P.W. Ayers** *Hamiltonians, Adiabatic Connections, and Universal Functionals for 1-Matrix Functional Theory*	
15.00 - 16.00	Plenary lecture **D.J. Tozer** *Non-interacting kinetic energies, density scaling homogeneity, and triplet excited states: Some recent results*	Plenary lecture **D.G. Truhlar** *New Density Functionals with Broad Applicability in Chemistry (SOGGA11, SOGGA11-X, M11, M11-L) and Approaches to Open-Shell DFT*		Plenary lecture **T. Ziegler** *Constricted Variational Density Functional Theory. A New DFT Approach To the Study Of Excited States*	
16.00 - 16.30	*Coffee break*	*Coffee break*		*Coffee break*	
16.30 - 17.00	Chair: **M. Peach** Invited lecture **P. Gori-Giorgi** *Energy densities in the strong-interaction limit of density functional theory*	Chair: **A. Borgoo** Invited lecture **J. Vandevondele** *Simulating large condensed phase systems with GGA and hybrid density functionals*		Chair: **D. Lamoen** Invited lecture **A. Michalak** *Importance of weak, secondary interactions in catalysis - example of olefin polymerization*	
17.00 - 18.30	Contributed talks (1-4) *H. van Aggelen, D.R. Rohr, E. Matito, A. Akbari*	Contributed talks (5-7) *F. Da Pieve, A. Krishtal, S.N. Steinmann*		Contributed talks (8-11) *L.A. Constantin, T. Verstraelen, M.S. Deleuze, B. Hajgató*	
18.30 - 19.00		Poster session			
19.00 - ...			Banquet		

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Challenges in Density Matrix and Density Functional Theory

April 1 to April 6, 2012 - Ghent, Belgium