



PRIME GLASS PROJECT: EXPERIMENTAL EVIDENCE AND FLUID DYNAMICS MODELLING ISSUES FOR THE GAS RECIRCULATION TECHNOLOGY

UNIVERSITA' DI GENOVA – CAMPUS DI SAVONA
via Magliotto 2 – 17100 Savona (Italy)

Tuesday January 24th 2017

Program

Morning session

Palazzina Lagorio – first floor - Room LA218

9:00-10:00 Registration of participants

10:00 Welcome message from Prof. Federico Delfino – Rector for the University Campus

10:15 Stara-Glass S.p.A., Giorgio Ministrini: *“Primeglass Project: experimental results from flue gas recirculation and air staging installations”*

10:45 Stazione Sperimentale del Vetro, Walter Battaglia: *“Combustion characterization of glass melting furnace – methodology approach and performance analysis of recirculating flue system and air-staging installation”*

11:15 **COFFEE BREAK**

11:45 University of Sheffield - IFRF, Mohamed Pourkashanian, Neil Fricker: *“Modeling of combustion flames in industrial furnaces”*

12:15 ANSYS Italia, Andrea Arensi: *“The combustion simulation technology: ANSYS solutions for complex chemical kinetic systems”*

12:45 Università di Genova, Santo Cogliandro, Carlo Cravero: *“Modeling issues in glass production plants. Radiative heat transfer and infrared analysis for the flue gas recirculation technique and combustion analysis”*

13:15 – 14:30 **LUNCH**



Afternoon session

Palazzina Lagorio – first floor - Room LA218

14:30 RJC S.r.l., Alessandro Merlini, Sauro Pasini, *"Designing low NOx combustion systems for high temperature furnaces. An integrated CFD based approach for EP Glass melting furnaces"*.

15:00 Università di Genova – Stara Glass S.p.A., Alessandro Nilberto, Ernesto Cattaneo, *"The combustion system installation at Savona Campus for the experimental analysis of turbulent flames. Preliminary experimental results and perspectives in the glass furnace combustion investigation"*

15:30 Università di Genova, Carlo Cravero, Alessandro Spoladore, *"CFD tools and lower order modeling for regenerative chambers with the gas recirculation system"*

16:00 – 16:30 COFFEE BREAK

16:30 Università di Genova, Carlo Cravero, Michele Pallante, *"Reactive CFD model for the simulation of glass furnace combustion"*

17:00 Stara-Glass S.p.A., Alessandro Mola, *"Overview of current status in the gas recirculation strategies and the insights needed for the technology transfer to the market"*

17:30 Discussion and conclusions

Participation is free of charge but you are kindly requested to confirm your participation at the following e-mail: ernesto.cattaneo@hydragroup.it or carlo.cravero@unige.it

Further information on the project PRIME GLASS: www.primeglass.it