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Wednesday 30th January 2013

18.30-19.30

Welcome aperitif

Thursday 31st January 2013

8.30-9.10

Participant registration

9.15-9.45

Welcome speeches

- Prof. Walter Lorenz, Rector Free University of Bozen-Bolzano
- Prof. Massimo Tagliavini, Dean of the Faculty of Science and Technology
- Prof. Vincenzo Corrado, President IBPSA Italy

9.50-10.30

Keynote speech

- Prof. Jan Hensen, TU Eindhoven

10.30-10.50

Coffee Break

11.00-12.30

Technical Sessions (in parallel)

Simulation of building performance 1 (chairman Piercarlo Romagnoni) - Room D.101

328 *Daylight harvesting: a multivariate regression linear model for predicting the impact on lighting, cooling and heating*

Moret, Stefano ; Noro, Marco; Papamichael, Konstantinos

343 *Lighting control system: margins of efficiency for office buildings*

Chiogna, Michela ; Frattari, Antonio

352 *Multi-objective optimisation of external shading devices for energy efficiency and visual comfort*

Rapone, Gianluca; Saro, Onorio; Zemella, Giovanni

357 *Optimisation of an hvac system for energy saving and thermal comfort in a university classroom*

Semprini, Giovanni ; Marinosci, Cosimo; Gober, Alessandro

381 *Climatic based consideration of double skin façade system- energy performance of parametric case studies*

Azarbayjani, Mona

385 *Energy and daylighting interaction in offices with shading devices*

Mazzichi, Francesca; Manzan, Marco

Actual perspectives in building physics (chairman Paolo Baggio) - Room D.102

330 *Derivation of meteorological reference year with hourly interval for Italy*

Antonacci, Gianluca ; Todeschini, Ilaria

331 *The admittance method for calculating the internal temperature swings in free running buildings*

Marletta, Luigi; Evola, Gianpiero ; Giuga, Maria; Sicurella, Fabio

337 *Social and energetic redevelopment of an old building*

Fortuna, Stefano ; Neri, Paolo; Peron, Fabio

344 *Quasi-steady state calculation method for energy contribution of sunspaces: a proposal for the European standard improvement*

Passerini, Francesco ; Albatici, Rossano; Frattari, Antonio

349 *Dynamic energy simulation as a tool: a case study of integrated design and LEED certification*

Pennisi, Vincenzo; Viero, Fabio

379 *The energy upgrading of existing buildings through the replacement of window and screen*

Carletti, Cristina ; Cellai, Gianfranco; Nannipieri, Elisa; Pierangioli, Leone; Scurpi, Fabio; Secchi, Simone

12.40-13.50

14.00-15.30

Buffet lunch

Technical Sessions (in parallel)

Simulation of building performance 2 (chairman Marco Manzan) - Room D.101

- 340 *Dynamic modelisation of interaction between wall and indoor air*
Moro, Lorenzo; Romagnoni, Piercarlo; Baggio, Paolo
- 346 *Thermal performance of the building walls*
Balaji, Nallaval Chinnaswamy ; Monto, Mani; Venkatarama, Reddy B.V.
- 371 *Improving summer energy performance of highly insulated buildings through the application of a thermal analysis by numerical simulation*
Ballarini, Ilaria ; Corrado, Vincenzo
- 374 *Energy performance characterisation of vented opaque envelope through simplified methodologies*
Corrado, Vincenzo ; Gorrino, Alice; Paduos, Simona
- 322 *The air energy balance equation paradox*
Mazzarella, Livio
- 380 *Analysis of the impact of ventilated cavities on the performance of opaque components*
Prada, Alessandro ; Baratieri, Marco; Gasparella, Andrea

Simulation of building performance 3 (chairman Luigi Marletta) - Room D.102

- 347 *Simulation of wind-driven ventilation in an urban underground station*
Ansuini, Roberta ; Giretti, Alberto; Larghetti, Roberto; Di Perna, Costanzo
- 348 *Comfort and energy performance of a hvac systems under real conditions for an office block*
Valdiserri, Paolo ; Marinosci, Cosimo; Pedretti, Laura
- 351 *Integrated bipv performance assessment for tropical regions: a case study for bangalore*
Gayathri, Aaditya ; Rohitkumar, Pillai; Monto, Mani
- 386 *Evaluating the nature and significance of ambient wind regimes on solar photovoltaic system performance*
Rao, Abhishek ; Mani, Monto
- 364 *Energy simulation and design of a hot box suitable for dynamic tests of building envelope opaque components*
Prada, Alessandro ; Gigli, Davide S.; Gasparella, Andrea; Baratieri, Marco
- 389 *Thermo-fluid dynamics of woody biomass flue gas in the heat accumulation stoves*
Scotton, Paolo ; Rossi, Daniele; Barberi, Mauro; De Toni, Stefano

15.30-15.50

16.00-17.30

Coffee Break

Technical Sessions (in parallel)

PhD student session 1 (chairman Livio Mazzarella) - Room D.101

- 353 *Procedure for buildings' energy modeling suited for integrated control simulation*
Dipasquale, Chiara ; D'Antoni, Matteo; Fedrizzi, Roberto; Kummert, Michaël; Marletta, Luigi
- 360 *Energy performance of shading devices for thermal and lighting comfort in offices*
Atzeri, Anna Maria; Pernigotto, Giovanni; Cappelletti, Francesca ; Gasparella, Andrea; Tzempelikos. Athanasios
- 361 *Parametrical analysis for the evaluation of the technical and economic effectiveness of different refurbishment measures*
Penna, Paola; Cappelletti, Francesca ; Romagnoni, Piercarlo; Gasparella, Andrea
- 363 *On the influence of several parameters in energy model calibration: the case of a historical building*
Pernetti, Roberta ; Prada, Alessandro ; Baggio, Paolo
- 376 *Long term evaluation of building energy performance: comparison of the test reference year and historical data series in the north italian climates*
Pernigotto, Giovanni ; Antonacci, Gianluca; Baggio, Paolo; Gasparella, Andrea; Hensen, Jan
- 382 *Ga-optimization of a curtain wall façade for different orientations and climates*
Bogar, Debora ; Rapone, Gianluca; Mahdavi, Ardeshir; Saro, Onorio

PhD student session 2 (chairman Vincenzo Corrado) - Room D.102

- 334 *Active slab design by lab tests and modeling*
Avesani, Stefano ; Neyer, Daniel; Baldracchi, Paolo; Filippi Oberegger, Ulrich; Lollini, Roberto

- 342 *Toward an energyplus decision tool for evaluation of energy performances during early-stage building design*
Picco, Marco ; Marengo, Marco
- 355 *Influence of the boundary conditions on the definition of a reference residential building for the italian context*
Bettoni, Davide ; D'Antoni, Matteo; Fedrizzi, Roberto
- 362 *Buildings and biomass cogeneration systems: integrated simulation approach*
Prando, Dario ; Patuzzi, Francesco; Pernigotto, Giovanni; Gasparella, Andrea; Baratieri, Marco
- 375 *Impact of using cool paints on energy demand and thermal comfort of a residential building*
Dias, Diana ; Machado, João; Leal, Vítor; Mendes, Adélio
- 384 *Use of pcm materials for the reduction of thermal energy requirement in buildings*
Reda, Francesco; Mazzeo, Domenico; Arcuri, Natale ; Bruno, Roberto
- 387 *Cooling energy needs: calculation methods and analysis relating to the national weather data*
Antonucci, Domenico Fernando

17.45-18.45
20.00-22.30

IBPSA Italy meeting
Conference dinner

Friday 1st February 2013

8.45-9.25

Keynote speech

- Prof. Ardeshir Mahdavi, TU Wien

9.30-10.30

Technical Sessions (in parallel)

Simulation tools 1 (chairman Alfonso Capozzoli) - Room D.101

- 327 *Benimpact suite: a tool for zeb whole life cycle analysis*
Demattè, Silvia ; Grillo, Maria Cristina; Messina, Angelo; Frattari, Antonio
- 338 *Extending the use of parametric simulation in practice through a cloud based online service*
Naboni, Emanuele ; Zhang, Yi; Maccarini, Alessandro; Hirsch, Elian; Lezzi, Daniele
- 358 *An open access tool for building energy audits harmonizing european standards*
Testi, Daniele ; Menchetti, Elena; Schito, Eva; Grassi, Walter
- 333 *Interoperability between building information models and software for lighting analysis*
Aghemo, Chiara; Blaso, Laura; Dalmasso, Daniele; Erba, David; Del Giudice, Matteo; Osello, Anna ; Fracastoro, Giovanni; Pellegrino, Anna; Ruffino, Pablo
- #### Simulation tools 2 (chairman Fabio Sicurella) - Room D.102
- 336 *Investigation of different simulation tools for solar photovoltaic modules*
Frontini, Francesco ; Marzoli, Matteo; Doust, Narghes
- 365 *The effect of material uncertainties on envelope heat transfer simulations*
Prada, Alessandro ; Baggio, Paolo; Baratieri, Marco; Gasparella, Andrea
- 369 *Quasi-steady state and dynamic simulation approaches for the calculation of building energy needs: part 1 thermal losses*
Pernigotto, Giovanni ; Gasparella, Andrea
- 370 *Quasi-steady state and dynamic simulation approaches for the calculation of building energy needs: part 2 thermal gains*
Pernigotto, Giovanni ; Gasparella, Andrea

10.30-10.50

Coffee Break

11.00-12.50

Round table - Role and perspectives of building simulation - Room D.001

Wellcome speeches

- Prof. Vincenzo Corrado, President IBPSA Italy

Round table - Role and perspectives of building simulation

- Order of the Engineers

- Chamber of the Architects

- AICARR

- ANDIL

- CTI National Thermotechnical Committee

- Klimahaus Agentur/Agenzia Casaclima

- IBPSA Germany-Austria

- IBPSA Italy

Debate

13.00-14.00

Buffet lunch