

IAHS
HOUSING
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2012

XXXVIII IAHS World Congress on Housing Visions for the Future of Housing: Mega Cities

April 16-19, 2012 Istanbul Technical University



International Association
for Housing Science



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PROGRAM

XXXVIIIth IAHS World Congress on Housing Sciences
Istanbul, Turkey
April 16-19, 2012

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XXXVIIIth IAHS World Congress on Housing Sciences
Istanbul, Turkey
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VENUE: Istanbul Technical University (ITU)
Taşkışla Campus, Taksim

SUNDAY, April 15, 2012

18.30 -20.00 Arrival and registration (ITU Taskışla Campus)

MONDAY, April 16, 2012

8.00 -9.00 Registration

9.00 -10.30 Opening Ceremony (Room: 109)

Derin Ural, *Congress Co-Chair, Vice Rector, Istanbul Technical University*

Muhammed Şahin - *Rector, Istanbul Technical University*

H.E. Kadir Topbaş - *Mayor, City of Istanbul (invited)*

Oktay Ural - *President, IAHS*

Concert

10.30 -12.00 Keynote Session (Room: 109)

Session Chair: Derin Ural - *Istanbul Technical University, Turkey*

Vladimir Brezar - *University of Ljubljana, Slovenia*

Keynote Speaker:

Gülsün Sağlamer

Transformations of Istanbul: A Voyage from Past to Future

Professor of Architecture, and Former Rector

Istanbul Technical University, Turkey

12.00 -13.15 Lunch

13.15 -14.30 Plenary Session I (Room: 109)

Session Chair: Vitor Abrantes / *University of Porto, Portugal*

Ahsen Özsoy / *Istanbul Technical University, Turkey*

Speakers:

Emilio Pizzi

Innovative Strategies for Adaptive Buildings in Large Cities

Politecnico di Milano, Italy

Amr Elnashai

Integrated and Interdisciplinary Earthquake Impact Assessment for Mitigation, Response and Recovery

University of Illinois at Urbana-Champaign, USA

Peter Schmid

Fundamental and Practical Proposals for Affordable Future Housing

TU/e, Eindhoven, Netherlands

14.30 -14.45 Coffee Break

14.45 -16.15 Parallel Session I

Session A (Room: 109)

Session Chair: Antonio Frattari / *University of Trento, Italy*

Topic: Effective Management for Housing Projects

- **Assessment of Comfort Level and General Home Condition of The Public Housing Buildings Property of A Portuguese Council**
Vitor Abrantes, University of Porto, Portugal
- **IAQ Analysis of Portuguese Residential Buildings**
Sandra Silva, University of Minho, Portugal
- **Environmental Analysis of Building Materials of Dwelling Homes in Slovak Republic – Case Study**
Adriana Estokova, Technical University of Kosice, Slovakia
- **Indicators Identifying and Weighting in Building Environmental Assessment System**
Eva Krídlová Burdová, Technical University of Kosice, Slovakia
- **Functional upgrading of the building "Vela B" of the neighborhood Scampia in Naples**
Renato Iovino, Federico II University, Italy

Session B (Room: 127)

Session Chair: Luis Villegas / *University of Cantabria, Spain*

Topic: Innovative Construction Schemes

- **Cork Concrete Mechanical Behaviour Under High Temperatures**
Maria de Lurdes Belgas Costa, Technical Institute of Tomar, Portugal
- **Technological Procedure of Concreting and Quality of Concrete – The Case Study**
Alena Sicakova, Technical University of Kosice, Slovakia
- **Geopolymer Concrete with Recycled Glass: An Alternative Material for Prefabricated Elements**
Paulo Henrique Ribeiro Borges, Federal Centre for Technological Education of Minas Gerais, Brazil
- **Strategies For Sustainable Housing Development – The Challenges From Renewable Energy**
Grace K C Ding, University of Technology Sydney, Australia
- **Health And Safety In The Construction: Subject Pending To Be Included In The Curriculum Of Architecture In Spain And Lack Of College Regulations Regarding The Documentation To Be Presented At The Construction Execution Project**
Antonio Eduardo Humero Martin, Escuela Tecnica Superior De Arquitectura – Upm, Spain

Session C (Room: 131)

Session Chair: Qian Shi / *Tongji University, China*

Topic: Innovative Design

- **Sustainable Kitchen Design**
Burçin Hancı, Yaşar University, Turkey
- **The Building of Sustainable Architecture Study of Inner Climate Parameters and Evaluation of Operative Behavior of the Building**
Zuzana Vranayova, Technical University of Kosice, Slovakia
- **Cross Sector Collaboration: Improving Communities through Retro Fitting Sustainable Inclusive Homes**
Daniel Watson, University of Bradford, United Kingdom
- **A Study of Using of Fly Ash Substitutes for Portland Cement in Concrete Road**
Marcela Ondova, Technical University of Kosice, Slovakia

- **Improvement of Living Standards for People with Disabilities Dwelling in Polish Prefabricated Housing Estates from The 1970s**
Elzbieta Trocka-Leszczynska, Wroclaw University of Technology, Poland
- **City planning indicators versus the quality of life in the Wroclaw housing estates**
Elzbieta Trocka-Leszczynska, Wroclaw University of Technology, Poland

Session D (Room: 134)

Session Chair: Robert Krapfenbauer / *Ingenieurbüro Krapfenbauer, Austria*

Topic: Innovative Financing Systems

- **Price Formation and Real Estate Characteristics – Residencial Real Estate, Lisbon – Portugal**
Jorge Ferreira Vaz, Polytechnic Institute, Bragança, Portugal
- **Sharing the Blame: Financial Innovation in the Repair of Leaking Buildings in New Zealand**
Chris Murphy, Unitec Institute of Technology, New Zealand
- **Hedonic House Pricing Models: A Meta - Analysis**
Serdar Kale, Izmir Institute of Technology, Turkey
- **Growing Your Own Housing Stock**
A. Hunter Cairns, Heriot-Watt University, United Kingdom
- **Modernity and informality – Conflicting forces shaping urban form in Kisumu, Kenya**
Gerald Steyn, Tshwane University of Technology, South Africa

16.15 -16.30 Coffee Break

16.30 -18.00 Parallel Session II

Session A (Room: 109)

Session Chair: Hasan Boduroğlu / *Istanbul Technical University, Turkey*

Topic: Effective Management for Housing Projects

- **Recovery of Defense Towers Basque with Economic Use**
Mario de Goicoechea de la Quadra-Salcedo, Universidad San Pablo CEU, Spain
- **The Analysis of the Preservation and Repair Processes of Wooden Structures within the Context of Sustainability**
Nihal Arıoğlu, Mahmure Övül Arıoğlu Salmona, Marmara University, Turkey
- **Importance of Subcontractors for a Successful Sustainable Housing Construction**
Esin Kasapoğlu, Istanbul Kultur University, Turkey
- **Next Challenge of Sustainable Housing Construction: Evidence From China**
Qian Shi, Tongji University, China

Session B (Room: 127)

Session Chair: Kazuo Konagai / *University of Tokyo, Japan*

Topic: Innovative Design

- **Simulation of Sound Absorption in 2D Thin Elements Using a Coupled BEM/TBEM Formulation in the Presence of 3D Sources**
Antonio Tadeu, University of Coimbra, Portugal
- **Changing Habit's: a Low Impact System for Temporary Constructions**
Giulia Agostinelli, Politecnico di Milano, Italy
- **A Study on Design Optimization of a Near Net-Zero Energy House**
Gabriele Masera, Politecnico di Milano, Italy

- **Flexibility in Typology, Technology, Construction and Performances: An Innovative Approach for an Open Construction Kit**
Gabriele Masera, Politecnico di Milano, Italy
- **Technological and Functional Optimization of a Modular Construction System for Flexible and Adaptable Multi-Family**
Gabriele Masera, Politecnico di Milano Italy
- **The Integration of Building Services to Ensure Functionality and Technical Innovation in New Buildings**
Angelo Lucchini, Politecnico di Milano, Italy

Session C (Room: 131)

Session Chair: *Ufuk Yazgan / Istanbul Technical University, Turkey*

Topic: Innovative Construction Schemes

- **Experimental Diagnosis of Earthen Construction: Characterization and In Situ Estimation**
Ignacio Lombillo, University of Cantabria, Spain
- **An Entropy-Based Model for Evaluating the Housing Design Performance**
Serdar Kale, İzmir Institute of Technology, Turkey
- **In Situ Assessment of Structural Timber Elements of a Historic Building by Moisture Content Analyses and Ultrasonic Velocity Tests**
Carlos Rivera Gómez, University of Seville, Spain
- **Inflatable Structures for Temporary Use, Applicability and Limits**
Adina Moldan, Technical University of Cluj, Romania
- **New materials in construction: the exterior panels Trespa Mention**
Yahia Al-Zoubi, Department of Architecture, University of Jordan, Jordan, Amman

Session D (Room: 134)

Session Chair: *Berrak Teymur / Istanbul Technical University, Turkey*

Topic: Effective Management for Housing Projects

- **Use of Artificial Intelligence Algorithm in Housing Projects Efficiency Decisions**
Mert Tolon, Istanbul Technical University, Turkey
- **Analysis of Energy Evaluation on Lighting Programs**
Arzu Cilasan, Yaşar University, Turkey
- **A Market Research for the Identification of Funding Problems and Marketing Strategies in the Housing Sector**
Murat Anbarcı, Istanbul University, Turkey
- **The Influence of Ceiling Height in Thermal Comfort of Buildings: A Case Study in Belo Horizonte, Brazil**
Maria Cristina Ramos Carvalho, Federal Centre for Technological Education of Minas Gerais, Brazil
- **Integrated Project for Progressive Housing in The Century XXI**
Vítor Abrantes, Bárbara Rangel, University of Porto, Portugal

Session E (Room: 126)

Session Chair: *Beyza Taşkın / Istanbul Technical University, Turkey*

Topic: Innovative Design

- **Characterization of ICB Hangers for Use In Suspended Acoustic Ceilings**
Julieta António, University of Coimbra, Portugal

- **Adaptation of Quality Function Deployment Technique for the Construction Industry**
Bayram Er, Akdeniz University, Turkey
- **Current New Designs of Low Income Mass Public Housing in Cairo: What has been Learnt from the Failure of the Past Experiences?**
Khaled Galal Ahmed, United Arab Emirates University, United Arab Emirates
- **Sustainable Urban Design in the Town of Pitesti, Romania: Case study – “Exercitiu” Neighborhood**
Smaranda Todoran, Technical University of Cluj Napoca, Romania
- **Towards the Nano Echo Space**
Randa Hassan, El Shorouk Academy, Egypt

18.00 -20.30 Welcoming Reception – ITU Taskisla Courtyard

TUESDAY, April 17, 2012

9.00 -10.30 Keynote session (Room: 109)
Session Chair: Amr Elnashai / *University of Illinois, Urbana-Champaign, USA*
Ozan Özener / *Istanbul Technical University, Turkey*

Keynote Speaker:

Jorge Vanegas

A Transdisciplinary, Transinstitutional, and Transnational Integrative Framework for High Quality and Performance, Affordable, and Sustainable Housing
Dean; College of Architecture, Texas A & M University, USA

10.30 -10.45 Coffee Break

10.45 -12.15 Parallel Session III

Session A (Room: 109)

Session Chair: Miqdad Haidar Al-Jawadi / *University of Technology, Iraq*

Topic: Effective Management for Housing Projects

- **Assessment of Construction Risks and their Allocation in the Construction Industry**
Sadi Assaf, King Fahd University of Petroleum and Minerals, Saudi Arabia
- **Knowledge Management for SMEs about Building Rehabilitation**
Alfredo Soeiro, University of Porto, Portugal
- **Renewable Energy In Developing Countries: Analysis of Photovoltaic Panels In Togo**
F. Javier Balbás, University of Cantabria, Spain

Session B (Room: 127)

Session Chair: Ali Gheith / *Metropolitan College of New York. U.S.A.*

Topic: Innovative Construction Schemes

- **Energy Efficiency Renovation on the Example of a Multi - Apartment Building in Trnsko, Zagreb, Croatia**
Iva Muraj , University of Zagreb, Croatia

- **New Constructive Solutions to Improve Energy Efficiency in Existing Buildings and Their Economic Viability**
Victor Echarri , Antonio Galiano Garrigos, Universidad De Alicante, Spain
- **Design Strategies for the Reuse of Historical Rural Heritage and the Upgrading of the Agrarian Landscape of Etna's Piedmont Area**
Angela Moschella, University of Catania, Italy
- **The Architectural Integration of Photovoltaic Building Products in the Historic Centers**
Rossana Paparella, Universita Degli Studi Padova, Italy
- **The Future Obligations Of "Project Manager" As Construction Integral Director (Dipe) In The Law Of Buildings Construction In Spain (Loe)**
Manuel Jose Soler Severino, Universidad Politecnico de Madrid, Spain

Session C (Room: 131)

Session Chair: Esin Ergen / *Istanbul Technical University, Turkey*

Topic: Innovative Design

- **Water-Saving Culture Vision in the City of the Future**
Daniela Ocipova, Technical University of Kosice, Slovakia
- **Reuse of Grey Water in Buildings: Technical, Environmental and Health Aspects**
Armando Silva-Afonso, University of Aveiro, Portugal
- **The Developed Technological Styles And their Impression on the Glass Architectural Constructions**
Rasha Mohamed, Mohamed Zenhoum, A3R for Architectural Enhancement & Restoration, Egypt
- **Towards a User-Friendly Visual Representation Methodology of Quality to Compare Alternative Envelope / Service**
Rachele Perego, Politecnico di Milano, Italy
- **The Impact of Air Flow upon Egypt Buildings**
Samar Sheweka, The British University in Egypt, Egypt

Session D (Room: 134)

Session Chair: Ömer Aydan / *Tokai University, Japan*

Topic: Innovative Design

- **Sustainable Timber Use in the Australian Housing Market: Are Consumers Willing to Pay the Price**
Douglas Thomas, University of Technology Sydney, Australia
- **A Lean Management Tool for Housing Design**
Gabriele Masera, Politecnico di Milano, Italy
- **The Contribution and Effectiveness of Carbon Footprint Evaluation in Building Environmental Assessment Tools in Hong Kong**
Yuan Chen, The University of Hong Kong, Hong Kong
- **Green Design: A Necessity for Future of Social Housing**
Anahita Rezaallah, Politecnico di Milano University, Italy
- **Social Housing In Great Metropolitan Areas: A New Methodology for Integrated Quality Evaluation And Comparison**
Sergio Martín Blas, Polytechnic University of Madrid (UPM), Spain

Session E (Room: 126)

Session Chair: Pinar Özdemir/ *Istanbul Technical University, Turkey*

Topic: Innovative Design

- **Seismic Behavior of Building Façades**
Angelo Lucchini, Politecnico di Milano, Italy
- **Sustainable Prefabrication: Applicability on Housing Prototypes**
Cristina Rosa-Roncero, University of Seville, Spain
- **Housing, Neighborhood Quality and Quality of Life in Public Housing in Lagos, Nigeria**
Adetokunbo Ilesanmi, Obafemi Awolowo University, Nigeria
- **Analysis And Selection Of Diverse Materials, Used In The Realization Of Architectural Scale Models, And Posterior Practical Development Of Working Scale Models, With Photografic Assistance**
Antonio Rodriguez Rodriguez, Technical University of Madrid, Spain
- **Project of a “villa” in Marrakech, with the Principles of Ecological Architecture**
Flavia Fascia, Federico II University, Italy

12.15 -13.10 Lunch

13.10 – 13.30 “Evolution of the Historic Peninsula of Istanbul”, by Prof. Deniz Mazlum,
School of Architecture, ITU **(Room 127)**

13.30 -18.00 **Technical Tour / City Tour** by Congress Bus (All Registered Participants)
Visit to: Hagia Sophia, Blue Mosque, Hippodrome
(with option to stay at the Grand Bazaar- and if this option is chosen, return on own)

WEDNESDAY, April 18, 2012

9.00 -10.30 **Keynote Session** (Room: 109)

Chaired by: Al Borvice / *San Francisco, USA*
Derin Ural / *Istanbul Technical University, Turkey*

Keynote Speaker:

Prof. Amir Mirmiran

Housing in Mega cities - A Systems Engineering Approach
Dean, College of Engineering and Computing
Florida International University, USA

10.30 -10.45 Coffee Break

10.45 -12.15 **Parallel Session IV**

Session A (Room: 109)

Session Chair: Alper İlki / *Istanbul Technical University, Turkey*

Topic: Effective Management for Housing Projects

- **Street Crimes and Quality of Life in the Neighborhoods**
Romualdo Montagna, Polytechnical University of Marche, Italy
- **Inadequate Housing, Unsafe Neighbourhoods and Mental Health: A Psycho-Architectural Perspective**
Adetokunbo Ilesanmi, Obafemi Awolowo University, Nigeria

- **Doctoral Studies on Housing**
Pelin Dursun, Istanbul Technical University, Turkey
- **Determining the Requirements of Indoor Navigation during Emergency Response and Disaster Management**
Murat Ayhan, Gazi University, Turkey
- **Sustainable Building Envelopes**
Chiara Cicero, University of Catania, Italy

Session B (Room: 127)

Session Chair: Emilio Pizzi / *Politecnico di Milano, Italy*

Topic: Innovative Construction Schemes

- **A Construction Site “Masterplan” for New Towns**
Marco Lorenzo Trani, Politecnico di Milano, Italy
- **Properties of High Resistance Concrete, Low Porosity and Elevated Resistance to Aggressive Soils with High Sulfate Content, Employed in Foundations in Rehabilitation of Housing in Spain**
Antonio Rodriguez Rodriguez, Technical University of Madrid, Spain
- **Inspiration from Nature**
Rasha Mohamed, Mohamed Zenhoum, A3R for Architectural Enhancement & Restoration, Egypt
- **The Advantages of Integrating Building Sustainability Assessment (BSA) Tools in the Early Stages of the Architectural Design Process of Dwellings**
Anahita Rezaallah, Politecnico di Milano University, Italy
- **Fuzzy Signature-based Model for Qualification and Ranking of Residential Buildings**
Adam Bukovics, Széchenyi István University Győr, Hungary

Session C (Room: 131)

Session Chair: Arzu Erdem / *Istanbul Technical University, Turkey*

Topic: Innovative Design

- **The Predicting of Chosen Contaminants in Eroded Soil Particles and Reservoir Bottom Sediments Depending on Land use**
Natalia Junakova, Technical University of Kosice, Slovakia
- **Analysis of Thermal Performance of an Extensive Green Roof System in Istanbul, Turkey**
Nil Türkeri, M. C. Altun and C. Göçer, Istanbul Technical University, Turkey
- **Sustainable Features of Vernacular Architecture**
Reham Momtaz, Modern Academy for Engineering and Technology, Egypt

Session D (Room: 134)

Session Chair: Senem Deviren / *Istanbul Technical University, Turkey*

Topic: Effective Management for Housing Projects / Innovative Design

- **Photovoltaic System and Energetic Demands of the Administrative Building**
Marek Kusnir, Technical University of Kosice, Slovakia
- **Indoor Thermal Comfort Variations in Residential Buildings Within Ibadan Metropolis, Nigeria**
Adewale Oluseyi Adunola, Obafemi Awolowo University, Nigeria
- **Developing Detail Alternatives for Green Roof Systems**
M. C. Altun, C. Göçer and N. Türkeri, Istanbul Technical University, Turkey

- **Comparative Economic Valuation of Green Roofs: An Overview**
Aynur Kazaz, Akdeniz University, Turkey
- **On Informal Housing: The Case of Al-Khaleej Region in Libya**
Ramadan T. Belgasem Dboba, Department of Architecture & Urban Planning, University of Al-Fateh, Tripoli, Libya

Session E (Room: 126)

Session Chair: Chuck Frank / *Metropolitan College of New York, USA*

Topic: Innovative Construction Schemes

- **Readying a Developing Economy for National Performance Measurement and Benchmarking: A Case Study of the Jordanian Construction Industry**
Suhair Zaid Alkilani, University of Technology Sydney, Australia
- **Utilization of Hemp Concrete as Building Material**
Nadezda Stevulova, Technical University of Kosice, Slovakia
- **Sustainable Low-Cost Housing - A Look at Recycled Intermodal Construction Materials for Solving Housing Problems in Lagos Mega-City**
Enitan Oloto, University of Lagos, Nigeria
- **Tile Vaulting as an Alternative**
David López López, Polytechnical University of Catalunya, Spain

12.15 -13.30 Lunch

13.30 -14.45 Plenary Session II (Room: 109)

Session Chair: Antonio Tadeu / *University of Coimbra, Portugal*

Orhan Hachhasanoğlu / *Istanbul Technical University, Turkey*

Speakers:

Vladimir Brezar

The Future of Urban Dwelling Design

University of Ljubljana, Slovenia

Subrata Chattopadhyay

An Investigation on Location Choice for Housing in Mining Towns: Case Study of Korba, India.

Indian Institute of Technology Kharagpur, India

Antonio Frattari

The Role of the General Contractor in Sustainable Green Buildings: The Case Study of Two Buildings in the LEED Certification in Italy

University of Trento, Italy

Luis Villegas

Construction in Spain: Crisis 2007-2010 and future prospects

University of Cantabria, Spain

14.45 -15.00 Coffee Break

15.00 -16.30 Parallel Session V

Session A (Room: 109)

Session Chair: Cankut Örmeci / *Istanbul Technical University, Turkey*

Topic: Innovative Design

- **The Effect of Window Distribution on the Visual Illusion of Changing Space Areas in Housing Projects**
Miqdad Haidar Al-Jawadi, University of Technology, Iraq

- **Natural Stone Between Shape and Structure**
Grazia Lombardo, University of Catania, Italy
- **Comparative Assessment of Wood, Cement-Bonded Wood Fiber and Brick Construction Technologies in a Mediterranean Climate with Regard to Consumption, Comfort and Environmental Impact**
Alessandro Stazi, Università Politecnica delle Marche, Italy
- **Urban Design for Growing the Quality of Life in the Residential Neighborhoods**
Adriana Matei, Technical University of Cluj Napoca, Romania

Session B (Room: 127)

Session Chair: Peter Schmid / *TU/e, Eindhoven, Netherlands*

Topic: Innovative Design

- **Innovative Sustainable Residential Building Design in Brazil**
Paula Bamberg, Universidade Federal de Minas Gerais, Brazil
- **Social Housing Rehabilitation of Portuguese Modern Movement and the Quarter of Bairro da Caixa Têxtil**
Vitor Abrantes, João Ascensão, University of Porto, Portugal
- **Post Disaster Housing Damage Assessment in the Gaza Strip-Palestine**
Adnan Enshassi, Islamic University of Gaza – Palestine, Palestinian Territory
- **Reshaping the Urban Quality of Hong Kong as One of the Mass Transit Railway Mission Objectives**
Raymond Wong, City University of Hong Kong, Hong Kong
- **Social Housing in Italy: state of the art, prospects and a case study**
Giuseppe Mastrilli, Politecnico di Milano, Italy
- **Re Designing Future of Megacity Dhaka**
Syed Munawar Husain Bukhary, Department of Economics, Jahangirnagar University, Bangladesh

Session C (Room: 131)

Session Chair: Subrata Chattopadhyay / *Indian Inst. of Tech. Kharagpur, India*

Topic: Innovative Design

- **Systemic Approach for a Sustainable/Responsible Design: Thinkings and Proposals**
Angela Moschella, University of Catania, Italy
- **Solar City: Design Strategies for the Solar Potential of Urban Areas**
Gabriele Lobaccaro, Politecnico di Milan, Italy
- **Housing and Environmental Problems in Urban Central Areas: Case Study of Ile-Ife, Nigeria**
Adewale Oluseyi Adunola, Obafemi Awolowo University, Nigeria
- **Thoughts and Ideas on Ecological Sustainability and the Reflections on Architecture**
Meltem Aksoy, Serap BİLGİN, Istanbul technical University, Turkey
- **Urban agriculture as a way to supply the urban green spaces Oran's study case (Algeria)**
Ammara Bekkouche, Université des Sciences et de la Technologie d'Oran, Algeria

Session D (Room: 134)

Session Chair: Ahmet Samsunlu / *Istanbul Technical University, Turkey*

Topic: Innovative Design

- **Design Strategies for Optimizing Natural Ventilation in the Mediterranean Area: Case Studies Analysis**
Mauro Caini, University of Padua, Italy

- **Influences of Building Techniques on the Winter Energy Performance Index of Buildings in Marcianise (Italy)**
Luigi Mollo, Second University of Naples, Italy
- **Thermodynamic Tests with a New Kind of Thermal Insulation Material from Cornstalk**
David Bozsaky, Szechenyi Istvan University, Hungary
- **Comparison of Low Rise Residential Industrialized Building Systems in Turkey**
Semih Göksel Yıldırım, Istanbul Arel University, Turkey
- **Study And Monitoring Of Six Dwellings With Glazed Gallery During The Summer**
Ana Sánchez-Ostiz Gutiérrez, University of Navarra, Spain

Session E (Room: 126)

Session Chair: Angelo Lucchini / *Politecnico di Milano, Italy*

Topic: Innovative Construction Schemes

- **Qualitative Analysis of Mechanical Behavior and Restoration Proposal of Churches with Single Nave in Seismic Territory**
Angelo Salemi, University of Catania, Italy
- **Public-Private Financing (Ppp and Ppi) as Generator of Projects of Architecture in the Spanish Construction**
Manuel Jose Soler Severino, Universidad Politecnico de Madrid, Spain
- **Contribution of the Trombe wall to sustainable buildings: Experimental work**
Anabela Paiva, Universidade de Trás-os-Montes e Alto Douro, Portugal
- **Energy Rehabilitation of Portuguese Ancient Buildings**
Anabela Paiva, Universidade de Trás-os-Montes e Alto Douro, Portugal
- **The Future of Dismountable Timber Structures for Housing, Between Tradition and New Sustainability**
Adina Moldan, Technical University of Cluj, Romania
- **Affordable Green Building Alternatives for Low-Cost Housing in Egypt**
Usama Elfiky, Kafr Elshiekh University, Egypt

16.30 -16.45 Coffee Break

16.45 -17:30 Parallel Session VI

Session A (Room: 109)

Session Chair: Nil Türkeri / *Istanbul Technical University, Turkey*

Topic: Innovative Design

- **Suburbs: Chances for Megacities**
Kezban Ayça Alangoya, Istanbul Kultur University, Turkey
- **SIGABIM: a framework for BIM application**
André Monteiro, University of Porto, Portugal
- **All Season Use Of Rasoulia House, (Winter Section Of The Double Courtyard)**
Mohammad Kazemi, School of Art and Architecture, Yazd University, Yazd, Iran
- **Introduce and Analyze the Climate Strategies of Iranian Contemporary and Traditional Residential Architecture**
Mohammad Kazemi, School of Art and Architecture, Yazd University, Yazd, Iran
- **Design for Sustainable Spaces for Young People**
Stefania Marletta, Università degli Studi di Catania, Italy

18:30

Transfer from Taşkışla to Banquet via Congress Bus (prompt departure)

- 19.30 -23.00 Congress Gala Dinner**
Four Seasons Hotel Istanbul at the Bosphorus
Cocktail: Bosphorus Terrace
Banquet: Bosphorus Ballroom
Music by: "Altin Kizlar"
- 23:00** Transfer from Banquet to Taskisla and Taksim Area via Congress Bus

THURSDAY, April 19, 2012

- 9.00 -10.30 Plenary Session III - Earthquakes and Housing Issues (Room: 109)**
Session Chair: **Ahmet Sağlamer**/*Istanbul Technical University, Turkey*
Kay Goss / *World Disaster Management, LLC, United States*
- Panelists:
Ömer Aydan
Shaking and Tsunami-induced Damage to Buildings by the 2011 east Japan Mega Earthquake and Its Lessons
Tokai University, Japan
- Kazuo Konagai**
Massive Destruction caused by the March 11th, 2011 Off the Pacific Coast of Tohoku Earthquake and its Impact on Earthquake Engineering Practice
IICS, University of Tokyo, Japan
- Reşat Ulusay**
Shaking and Ground failure-induced Damage to Buildings by the 2010 and 2011 Christchurch Earthquakes and Its Lessons
Hacettepe University
- 10.30 -11.00 Coffee Break**
- 11.00 -12.00 Plenary Session IV - Earthquakes and Housing Issues (Room: 109)**
Session Chair: **Ali Gheith** / *Metropolitan College of New York, U.S.A.*
Nilgün Okay / *Istanbul Technical University, Turkey*
- Panelists
Vinton Thompson, *President, Metropolitan College of New York, U.S.A*
- Kay Goss**, *World Disaster Management, LLC, United States*
Chuck Frank, *Assistant Director, Emergency and Disaster Management Program, Metropolitan College of New York, U.S.A.*
- Gerard McCarty**, *General Manager, Emergency Management; Port Authority of New York*
- Joan Thomas**, *Consultant on Emergency Management, Formerly NYC Office of Emergency Management*
- 12.00 -13.00 Lunch**
- 13.00 -14.00 Closing Ceremony**
Oktay Ural, *IAHS President*
Emilio Pizzi, *Dean, School of Architecture, Milano Politecnico*
Vitor Abrantes, *University of Porto*
Antonio Frattari, *University of Trento*
Derin Ural, *Congress Co-Chair*