

Madrid, Spain

MULTICOMFORT HOUSE STUDENTS CONTEST

13th International Stage – Madrid 2017











Madrid, Spain

31 May-2 June 2017

Willkommen!

Сардэчна запрашаем!

Добре дошли!

Dobro došli!

Vítame Vás!

Tere tulemast!

Tervetuloa!

Кош келдініздер!

Добро пожаловать! Ласкаво просимо!

Hoşgeldiniz!

Laipni lūgti!

Sveiki atvykę!

Bine ati venit!

Vítáme vás!

Dobrodošli!

Bienvenido!

Bienvenue! Welkom!

Welcome!

Witamy!

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Introduction



Participating countries to final stage of MULTICOMFORT HOUSE STUDENTS CONTEST EDITION 2017

HISTORY

MULTI**COMFORT** House Competition 2017 has taken place in Madrid between 31th of May - 2nd of June and reached its 13th edition. More than 1800 students registered for this year edition representing over 200 Schools of Architecture and Building Sciences from 90 countries. The event, which was held at the Crystal Gallery-Palacio de Cibeles, has been attended by about 250 people, including students, teachers, architects and authorities

The competition is structured in 2 stages: national stages followed by an international onewhere the best projects from each country compete.

"In this contest the professional careers of many architects have been measured to make better cities and a better world. They have demonstrated a clear commitment to sustainability", Madrid Mayor.



ASSIGNMENT

This year task, which has been coordinated by the Isolation activity of Saint-Gobain, Isover, has the collaboration of the Sustainable Urban Development Area of the Madrid City Council and the San Blas Area. The participants have designed their projects for the urban regeneration of a community within the perimeter of the Gran San Blas area of Madrid, following the MULTICOMFORT House criterion of Saint-Gobain. That is, taking into account that it is sustainable (including environmental, economic and social factors), that provides high thermal comfort, offering excellent acoustic comfort, visual comfort, indoor air quality, and fire and safety protection. In addition, they have also had to respect the MAD-RE (Madrid Recupera) plan established by the Town Planning Area of the Madrid City Council.



FINAL STAGE

The contest started with the opening of the projects exhibition during which the participants had the chance to see all projects participating to this year event.

For the members of the jury:

- Ms. Maria Del Pilar Pereda Suquet Sustainable Urban Development Area Advisor, Madrid City Council
- Ms. Raquel Del Rio Machin Sustainable Urban Development Area Advisor, Madrid City Council
- Mr. Slawomir Szpunar International Marketing Director, Saint-Gobain Group, France
- Mr. Leif Andersson International Manager Innovation & Solutions, Saint-Gobain Insulation Activity, France
- Mr. Roland Matzig Architect, RMP Architects, Germany
- Mr. Nicolas Maruri González de Mendoza Architect, Maruri Architects, Spain
- Mr. Francisco Rojas Rivadulla Architect, 1st Prize winner MCH Students Contest Spain 2010



Participants in the MULTI**COMFORT** HOUSE STUDENTS CONTEST 2017 International Stage



International Winners 2017

During the second day, each of the 53 students teams, from 30 countries, representing more than 30 different nationalities, had the opportunity to present their concept design and ideas in front of the jury and all participants, as well as friends and colleagues, that were watching them on-line, as the event was live streamed.





The awarding ceremony was held on the 3rd day of the competition at the Crystal Gallery-Palacio de Cibeles in the presence of Major of Madrid, Manuela Carmena, and the Chairman and CEO of Saint-Gobain, Pierre-André de Chalendar. The ceremony was attended by about 250 people, including students, teachers, architects and authorities.

INTERNATIONAL WINNERS 2017

- 1ST PRIZE: AIVA DORBE, LAUMA KALNINA from Riga Technical University, Latvia
- 2ND PRIZE: ALINA HOLOVATIUK from KNUCA, Ukraine
- **3**RD **PRIZE**: ANNIKA LAIDROO, PRIIT RANNIK from Tallinn University of Technology, Estonia Honorable mention:
- EMA KIABOVÁ, ROMAN RUHIG from Slovak University of Technology in Bratislava, Slovakia Students prize:
- LAURA IVANE, INESE GUSTA from Riga Technical University, Latvia



Winners of the 1st Prize: Aiva Dorbe & Lauma Kalnina awarded by Major of Madrid, Manuela Carmena, and Chairman and CEO, Pierre-André de Chalendar



Professors



PROFESSOR ARCH, ANNA LITVINOVA

Belarus

Architect, designer and a leading expert in the field of architectural design and coloring, design of color and their study in architectural school. Head of the department "Design of architectural environment" at Belarusian National Technical University since 2002, Associate Professor. In 1980, graduated from the Dnepropetrovsk Civil Engineering Institute in speciality "Architecture," in 1992 - postgraduate studies (by correspondence) at the Belarusian State Polytechnic Academy, Since 1986 - Member of the USSR Union of Architects, the Belarusian Union of Architects, Full member of the AAU MOOSAO of the Republic of Belarus. Winner of the Special Prize of the President of the Republic of Belarus in the field of criticism and art history in 2003, Vth BSA National Festival of Architecture, International Science Project Competition and Exhibition mode on-line "Artistic Design Culture In the Era of Information Technologies", Russia, 2008. For creative achievements in the training of future architects awarded diplomas of the Belarusian Union of Architects and the Belarusian Union of Designers. The head of 30 graduation diploma projects (starting with 1998) marked by I and II degrees certificates in international and national contest of the best graduation projects (2 Grand Prix of the Republican contests.) Co-author of a textbook, "Architectural coloring" (two books), author over 50 scientific publications in domestic and foreign editions. The participant of republican and international conferences, symposiums, congresses and exhibitions. Jury member of international and national competitions in the field of architecture and design. Author and coauthor of over 50 completed and implemented significant works of architecture and design (Belarus, Russia, Ukraine, Crimea, Armenia, Lithuania).



ARCH. TATIANA PANCHENKO

Belarus

An architect, the head of architectural project and drawing department of the Brest State Technical University since 2010. In 1997 graduated from the Belarusian National Technical University, speciality "Architecture". In 2005, the post-graduate course (correspondence deportment) of the Belarusian National Technical University. Starting with 1999 the manager of more than 20 diploma projects, awarded with certificates of I and II degrees al the republic competitions of the best diploma projects. The author of more than 40 scientific publications in nativ and foreign editions. The member of republic and international conferences, symposiums, congresses and exhibitions. The jury member of international, republic competitions in the field of architecture and design.



ARCHITECT-URBANIST DANNY WINDMOLDERS

Belgium

Danny Windmolders is docent at the UHasselt (B), Department of Architecture and Art, where he graduated with Master Degree from Architecture in 1982. In 1999 he graduated with Master Degree from Urbanism at the Luca School of Arts Brussels (B). He is manager of Architectenbureau FCS (www.fcs.be), an architecture office where he started working in 1982.

Since 1989 he has been an Academic teacher at the Uhasselt.

He has also always been engaged in organizations that promote the improvement in the profession of architecture and that want to increase public awareness of the nature of architecture and its essential contribution to life and society. So he has been chairman of the 'Orde van Architecten Limburg' and chairman of the 'Nationaal Architecten Verbond'.



KLIMENT IVANOV Bulgaria

Kliment Ivanov is a Bulgarian architect who works in the fields of architectural design, scientific research and academic teaching. In 2000 he had a Master's degree in Architecture from the University of Architecture, Civil Engineering and Geodesy in Bulgaria. In 2005 he founded his own architectural practice Kliment Ivanov Architects. The practice is actively involved with architectural, interior and product design, and is internationally acknowledged by numerous awards. In 2014 Kliment Ivanov had a PhD in Architecture from the New Bulgarian University. He specialises in the field of renovation and adaptive reuse of buildings. He is an Assistant Professor and a Programme Consultant in the Masters Programme of Architecture in the New Bulgarian University.



TSVETA ZHEKOVA Bulgaria

Tsveta Zhekova is a Bulgarian architect who works in the fields of architectural design, scientific research and academic teaching. In 1997 she had a Master's degree in Economics from the University of Economics in Varna and in 2012 — a Master's degree in Architecture in Varna Free University. In 2015 Tsveta Zhekova had a PhD in Varna Free University and she started teaching as an Assistant Professor of Industrial and Transport buildings, Building Energy efficiency and Building Information Modeling (BIM). She is specialized in the field of sustainable design of intermodal passenger buildings, bioclimatic architecture and renewable energy sources.







ARCH. MSC. ANTONIO OLMOS HERNANDEZ

Columbia

Architect by the Universidad Del Atlántico, Barranquilla. (1996) where he meets with honorary thesis and mention of honor of S.C.A. For being a distinguished student during his university studies.

In the year 2001 he travels to the city of Barcelona, Spain, where he resided for 10 years, having practiced there, after homologating his title Colombian, to the Spanish of Superior Architect and to have registered in COAC - Catalonian Official College of Architects, until 2011. He also completed his post-graduate studies in the building construction department of the Universidad Politecnica de Cataluña, UPC. (Master in architecture technology and currently the PhD on the same line)

He has been lecturer and guest lecturer at universities; Universidad Nacional de Colombia - Medellin, Eafit University, Universidad Del Valle, Universidad Del Atlántico, and the Colombian Society of Architects, among others.

Since 1998, he has been a consultant for residential, institutional, urban and landscape projects in Colombia and Spain. At present, he is a researcher in the areas of sustainable construction and projects, at the School of Architecture, Urbanism and Design of the Universidad Del Norte, in Barranquilla.

He directs the project for the new FAB-LAB or laboratory of digital Fabrication, and EDISOST lab, where he also investigates the thermal behavior of buildings envelopes, and about the use of the wind in the constructions of the Caribbean coast.



PROFESSOR LJUBOMIR MIŠČEVIĆ D.I.A.



Born in 1954 and graduated from the Faculty of Architecture in Zagreb in 1979. Since 1979 has been working in the Institute of Architecture and as an associate at the Department of Architectural Design. Since 1991 has been teaching Energy and Ecology Architecture. He became a senior lecturer in1994/95 and an assistant professor in 1996/97. Since 1997/98, has been a supervisor for Graduation thesis courses and in 1999/00 the head for courses in Integral Work. Completed the post-graduate program in Urban and Physical Planning in 1982; registered scientist. He attended a specialist seminar in Architecture and Practical Design in Lisbon in 1993: EU DG XVII. Since 1985 has been engaged in the Croatian project Passive Solar Housing Architecture and in international research projects in Energy and Ambience Rehabilitation in Housing. He received awards from the Croatian State Administration of Environmental Protection in 1995 and from Ford Motor Company for the protection of nature and cultural heritage in 2000. Since 2000, has been head of the International Summer School of Architecture in Motovun. Chairman of the Association of Zagreb's Architects from 2001-2005.



ENG. ARCH. JOSEF SMOLA

Czech Republic

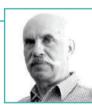
1958, architect, publicist and teacher at Czech Technical University in Prague, Faculty of Civil Engineering, also member at Center of passive houses in Czech Republic.



ENG. ARCH. LADISLAV KALIVODA

Czech Republic

Born in 1949. In 1974 Graduated CVUT - Czech technical University in Prague and became chartered architect at the Czech Chamber of Architects. He started his teaching career in 1975 as assistant in Faculty of Civil Engineering at CVUT. He was designer at project atelier in (1977 - 1978) and later a head of atelier SSDS (1991-1992) and ateliers Stavmont Ltd and Stavba 15 Ltd (since 1992). Starting from 2004 ing. Kalivoda is a part time lecturer at CVUT - Faculty of Civil Engineering.



ZUZANA PEŠKOVÁ

Czech Republic

* May 1, 1980

A graduate of the Faculty of Civil Engineering Czech Technical University in Prague, where she works as an associate professor in the Department of Architecture, is in charge of study program Architecture and Building Structures. She is teaching and publishing, has its own design practice. The main subject of interest in the rural-urban planning, especially the way the establishment and assessment of villages.



EMIL URBEL

Estonia

1959: born in Pärnu, Estonia 1982 graduated as architect, Estonian Academy of Arts

2000: member of Union of Estonian Archtects (UEA) 1982 State Design Institute "Eesti Tööstusprojekt" (Estonian Industrial Project)1984-1989 State Design Institute "Eesti Projekt" (Estonian Project)

1989-2000: Architects Urbel ja Peil OÜ 2000 - Emil Urbel Architects OÜ

1995-2000: teaching at Estonian Academy of Arts, Dept. of Interior architecture

2000-2005: teaching at Tallinn Technical Colledge, Dept. of Architecture

2012: teaching at Tallinn University of Technology, Faculty of Civil Engineering, Department Of Structural Design

Awards 1990 award of UEA "Best young architect"1996, 2000, 2003, 2012 awards of Estonian Cultural Endowment for the best building. Several awards and nominations in architectural competitions.







IRINA RAUD Estonia

Born in Tallinn, Estonia, studied architecture at Academy of Arts (ERKI), department of Architecture. 1969 – 1989 Worked as architect in state office Eesti Projekt, most important works: theatre Ugala in Viljandi, detail plan for Tallinn city center.

1989 – 1991 Vice Mayor of Tallinn and Tallinn Chief Architect Since 1992 she owns and runs her architectural office R-KONSULT.

During all the years she has maintained a focus on urban planning, architectural and design projects. Her works started from very big scale to small details, following the projects from idea to realisation, like passenger terminals in Tallinn, Paldiski and Ventspils, several office buildings, apartment houses, theatres in Viljandi and Tallinn ect.

Since 1973 she is a member of the Estonian Union of Architects, from 1993 Member of the German Academy of Urban Construction and Planning since 1993. From 1996 she is a Member of the German Academy of Arts in Berlin.

Since 2012 Irina Raud is a guest professor at Tallinn University of Technology and in 2013-2016 was elected as the Head of Architecture and Urban Design Department.



LECTURER JAAN KUUSEMETS

Estonia

He was born in 1979 in Kärdla, Estonia. From 2002 - marine engineering, Estonian Maritime Academy. 2010 graduated as architect, Tallinn University of Applied Sciences. 2012 graduated as architect, (M. Sc A.) Brandenburg University of Technology. 2012 - member of Union of Estonian Architects (UEA). From 2002 to 2014 he worked at AB DAGOpen OÜ. 2011 - teaching at Tallinn University of Applied Sciences, Dept. of Architecture. 2014 - teaching at Tallinn University of Technology, Faculty of Civil Engineering, Department Of Structural Design. He has several awards and nominations in architectural competitions.



JANNE PIHLAJANIEMI

Finland

Janne Pihlajaniemi is a professor of architecture in the Oulu School of Architecture, University of Oulu. His current research topics include Economics of Architecture and Modern Log City.

Pihlajaniemi received his Master's degree in architecture in 1998 and Doctoral degree in 2014 from University of Oulu. He has been awarded in 30 different national or international architectural competitions. Janne Pihlajaniemi is a partner of M3 Architects together with Kari Nykänen and Henrika Pihlajaniemi. The office works in the fields of urban planning and design, building design, housing and lighting design. Their buildings and projects have been published in various national and international publications.



LECTURER PETRI AARNIO

Finland

Graduated from Department of Architecture at University of Oulu 1994. Member of the Finnish Association of Architects since 1995. Worked in architecture offices 1984-2003 focusing on public buildings, apartment buildings and wooden buildings. Teaching architecture at the university of Oulu in the department of architecture in the laboratory of architectural construction since 2003. The main aspects in teaching: wooden structures, detailing of structures, sustainability, energy efficiency, planning of flats. Member of the management team of the architecture department of the university of Oulu. The Good Teacher Award of Oulu university 2010.



MARKKU HEDMAN Finland

Markku Hedman is a professor of housing design in the School of Architecture, Tampere University of Technology (TUT). Hedman is also the director of ASUTUT research group which is focused on housing design. The main themes of the research are resident-orientedness, the new solutions of urban living and sustainability in housing.

Hedman received his master's degree in architecture from Helsinki University of Technology (HUT) in 1996. Since 1997 Hedman has been running an architectural office and been in charge of a variety of design tasks from large scale urban planning to furniture design projects. Hedman has been awarded a prize in 13 national or international architectural competitions. His work has been exhibited in several international magazines and books as well as in exhibitions.



TARU LINDBERG Finland

Taru Lindberg is an architect, researcher and teacher of housing design in the School of Architecture, Tampere University of Technology (TUT). Lindberg is a member of ASUTUT researcher group, and the main focuses of the research are energy efficiency, carbon footprint and sustainability in housing. Lindberg received her master's degree in architecture in 2015 from Tampere University of Technology. She has working experience in architectural planning, BIM modeling and co-operation development with construction companies. Lindberg's master's thesis work has gained national attention and awards in the field of architecture, construction and green development.









Born in Paris in 1973.

Graduated from the Ecole d'Architecture Paris Villemin. Creating Equateur SAS d'architecture in 1999. (www.equateur-architecture.fr). Freelance Journalist on environnemental issues for the monthly architecture magazine AMC Le Moniteur from 2007 to 2010.

Since 2006 teacher at the architecture school ENSA Paris Malaquais



PROF. DIPL.-ING. HENNING M. BAURMANN

Germany

Born in 1965, studied architecture and art history at Karlsruhe Institute of Technology at Fritz Haller (Suisse) and Ottokar Uhl (Vienna), Diploma 1991. Founded his own office in 1994 and won many competitions and awards for realizations in design and architecture. In 1996, he became assistant of Arno Lederer at KIT, later lecturer at different german universities, in 2008 assistant professor for building technology and in 2010 full professor of building construction and technology at the University of applied sciences Darmstadt. Since 2016, B. is dean of the department of architecture and interior design.



PROF. GIANCARLO PAGANIN

Italy

Giancarlo Paganin, BSc MSc in civil engineering, PhD in building engineering.

Associate Professor of "technological design of architecture" at Politecnico di Milano, where he teaches courses in different Master of Science in the School of Architecture Urban Planning Construction Engineering. Member of University Assessment Commission of Politecnico di Milano.

His research activity is developed within the Department of Architecture and Urban Studies (DASTU) focusing, in particular, on the issues relating to: quality in design; construction quality and product innovation, quality and innovation in the construction process; safety management, safety on construction sites, management and maintenance of built assets and real estate, technical assessment, risk assessment and risk management.



GALINA RASHETOVNA ISKHOJANOVA

Kazakhstan

G. Iskhojanova is Dean of Faculty of Architecture IEC (KazGASA), Academic Professor, Candidate of Architecture. She graduated from the MARCHI (Moscow Institute of Architecture, Department of "Architecture of residential and public buildings"). She is the Member of the Union of Architects of the Republic of Kazakhstan, Honorary Architect of the Republic of Kazakhstan. She was a Chairman of the methodological council of the Faculty of Architecture and was the member of the Dissertation Council for candidate dissertations. She worked as a scientific consultant for the series of books on the history of culture and archeology, and as founder and editor of the first Kazakhstani magazines on architecture and design - "HALL" and "DESIGN & ADVERTISING" (1997-2003). From 2004 to 2010 she worked in various architectural and construction companies of Kazakhstan as a lead architect and a chief architect. More than 60 scientific articles and reports in the collections of national and international conferences and architectural magazines are published during the years of teaching and research working. G. Iskhojanova actively participates in international creative competitions together with students and masters of the architectural school.



NATALYA TSEITLINA Kazakhstan

Architect, 37 Years' experience and Practice. General Direktor in LLP "Krug". Almaty. Kazakhstan. From 2010 Invited Assistant of Professor in KazGASA. Leader of Students Groups from different international competitions since 2011 year and takes prizes and certificates. Leader of Students Group, who takes the first prize in the final stage of ISOVER International Students Contest for proposing a vision for "Residential function in cold climate: Astana, Kazakhstan" designed in accordance with Saint-Gobain Multy -Comfort Concept, student Contest-Edition 2015, 11-th International Edition.



Author and sub author in Projects of Houses, Sanatoriums and Hotels in Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan and Israel.

OXANA PRIYEMETS Kazakhstan

Born in 1973 in Bryansk region, Russian Federation. She graduated from the University of Almaty, Faculty of Architecture, Kazakhstan, in 1996. Since 1988 she has been working as an Assistant Professor of the Architecture Faculty. Since 2008, she has been taken up a post of an Assistant of Dean on international communications and external relations. The main direction in teaching is on the base disciplines (architectural graphic, bread boarding, composition). In 2015 she defended the candidate dissertation. She attended the international architectural seminars, writes scientific and professional articles. Works of her students participated in the domestic and international competitions and exhibitions, where they took the winner places. She also takes part in architectural and research projects.







RAKHIMA USMANOVNA CHEKAYEVA

Kazakhstan

Candidate of Architecture, Professor of the Department of Architecture, Architecture and Construction Faculty, Eurasian National University. L.N. Gumilev. Author of more than 180 publications, including manuals and guidelines, articles, recommendations, introductions, monographs, books.

The main types of scientific activity: the scientific and methodological foundations of the organization and training of specialists in the field of architecture, restoration and reconstruction of the architectural heritage; Problems of studying, preserving and protecting monuments, restoration, reconstruction and popularization of architectural heritage.

Planned studies: History of Kazakhstan architecture, world architecture, modern architecture of Kazakhstan.

Awards:

- 1. Honored Worker of Education of the Republic of Kazakhstan "for special merits in the field of education of the Republic of Kazakhstan;
- 2. "The best teacher of the university 2007" (Grant of the Ministry of Education and Science of the Republic of Kazakhstan)
- 3. Diploma of the 1st degree of the International Review Contest for the best project of the year in the section "Publications" and a series of teaching aids for students of architectural universities (Moscow).
- 4. The Honored Worker of Culture of RK MEDENITH KAIRATKERI
- 5. Honored Architect of Kazakhstan
- 6. Medal to the "15th Anniversary of ENU"
- 7. Medal T. Basenova for special merits in the field of architectural education



NIYAZ MUSAKEEV

Kyrgyzstan

An Architect, was born in 1986, in 2010 he graduated from KGUCTA, in major of architect city planner. Member of the Union of Architects of Kyrgyzstan. Senior teacher of "Architecture department" in the Kyrgyz State University of Construction, Transport and Architecture. In recent years, he has been working on the development of the ethnoarchitecture of Kyrgyzstan. He is an active participant in international and national competitions. Laureate of the architectural prize Usta, has silver diploma of the international architectural rating "Golden Capital".



YULIA VLADIMIROVNA RUDENKO

Kyrgyzstan

Rudenko Yulia Vladimirovna Senior lecturer of the department "Design of the architectural environment" KRSU. The senior architect of "Ack Studio", a member of the Union of Architects of the Kyrgyz Republic. Post-graduate student

Author of more than 140 architectural design projects implemented and -In co-authorship of international exhibitions and competitions head of diploma projects

- memota MAOoCAo «For creative and educational mastery» 2014 years Baku;
- In co-authorship, the winner of an open architectural competition for the construction of a quarry in the 1 district of Bishkek citybin 2017. Pedagogical experience 9 years.

 Professional experience 16 years.



YURI NIKOLAEVICH SMIRNOV

Kyrgyzstan

Doctor (dr.dr.) of Architecture, Associate Professor, Head of the Chair "Basics of Architectural Design", Professor of the Chair at the Faculty of Architecture, Design and Construction (FAD&C) of the Kyrgyz-Russian Slavic University (KRSU); Certificate of Honor of the Ministry of Higher Education of the Kyrgyz Republic (2015) Eco Architecture & Eco Design — Problems & Publications.



EDGARS BONDARS Latvia

Architect, born in 1983 in Riga, Latvia. Professional degree of Architect (2008), Master of Architecture (2009), Doctor of Architecture (2013). Doctoral thesis title: "Design of Spatial Environment in the Context of Bioclimatic Factors". Docent at the Faculty of Architecture and Urban Planning of Riga Technical University, research fields: bioclimatic design, energy efficiency strategies in architectural design. Co-founder and member of the board of architectural company RR.ES Ltd. (since 2006), dealing with residential, public and industrial building design. Associate member (since 2014) of the Latvian Sustainable Building Council (LSBC).







PROFESSOR ING. ARCH. LECTURER ANDRZEJ DUDA

Poland

Andrzej Duda, born in 1953, graduated from Silesian University of Technology in Gliwice (1973-79), post graduate studies in The Berlage Institute of Amsterdam (1991-92), established architectural office INARKO (together with H. Zubel) in 1988. Winner of about 40 architectural competitions, Honoured with many awards for his architectural works. Since 1980 a teacher at the Architectural Department of Silesian University of Technology in Gliwice and a guest professor at Warsaw University of Technology, Wrocław University of Technology, Prague University of Technology and Tbilisi Art Academy. Since 2002 an independent expert of European Union Prize for Contemporary Architecture Mies van der Rohe Award.



RADU PANA

Romania

Architect, received his Master degree in 1994 and PhD in 2007 from "Ion Mincu" University of Architecture and Urbanism, Bucharest. Teaching since graduation, interest in Building Physics and Architecture Technology, as a mean to improve buildings' comfort, energy efficiency and environmental impact. Head of the Technical Sciences Department between 2008-2016. Involved in many research projects in architectural acoustics, lighting and energy saving design, author of norms and regulations in the acoustic field.



ARCH. RADU ANDREI

Romania

Radu Andrei is Lecturer at "G.M. Cantacuzino" Faculty of Architecture, Technical University in Iasi. He teaches architectural rehabilitation, heritage preservation and restoration. His publications and research interests are in the fields of industrial heritage conservation and conversion, ecological architecture as well as architectural theory and phenomenology.



LECTURER SERGIU CĂTĂLIN PETREA

Romania

Sergiu Cătălin Petrea is Lecturer at Faculty of Architecture - Basics of Architectural Design Department from "Ion Mincu" University of Architecture and Urbanism. Starting with 2012 he has also a course of Ecology and Technology in Contemporary Architecture at UAUIM. He has attended Advanced Design Methods Master Program in 2005 and has a PHD Degree in architecture on Emergency Architecture in 2011. He currently explores the perspectives of sustainable architectural design and energy efficient planning, being also concerned about themes related to poverty, experiment and urban regeneration strategies. His architectural practice includes buildings from all the fields of expertise, interior and graphic design and architectural contests. He constantly participates in international congresses and conferences and it is also involved in research projects. Many of his architectural research themes are reflected in scientific papers and various thematic studies published in specialized media.



ZINAIDA POPOVA Russia

Zinaida Popova graduated from the Ust-Kamenogorsk High road and Civil Engineering institute in 1979 with an "Architecture" specialty. She worked as an architect in Mariupol` Engineering institute. After that she began to teach at the "Architecture and Design" Sub-department in the East Kazakhstan State Technical University. In 2007, she got the Candidate of Architecture degree in the Novosibirsk State Architectural and Art Academy. Her dissertation was connected with Orthodox architecture in the north-east of Kazakhstan. Z.Popova prepared courses of follow discipliners, such as History of the arts, Technique of plastic art, Method of architectural engineering for bachelors and masters students. She published about 50 scientific papers in various collections. Moreover, Zinaida Popova was engaged in the design of recreational areas in Ust-Kamenogorsk-city. Since September 2016, she teaches at the Architectural Engineering Sub-department in the Tomsk State University of Architecture and Building. She conducts practice lessons on "Architectural engineering" and gives lectures on "Actual problems of the theory of architecture and urban planning" for bachelors and masters. Also she is the Head of the master's thesis. Sphere of her scientific interests is the urban environment and the means of its humanization.



PHD. ARCH., PROFESSOR OLEG STAKHEEV

Area of scientific interests: architecture and town planning. Author of grants and methodical instructions. Author over 70 scientific publications in russian and international editions. The participant of the national and international conferences, symposiums, congresses and exhibitions.

Participant of many architectural competitions.

The head of scientific programs in the field of architecture and town planning. Gives lectures and practical training according to the Architecture program at university. Member of council of town planning of Tomsk. Honorable Architect of the Russian Federation.



Russia

Slovakia

DOC. ING. ARCH. HENRICH PIFKO

Born in 1959, he is currently teaching at the Faculty of Architecture of the Slovak University of Technology in Bratislava, at the Institute of Ecological and Experimental Architecture where he is the sponsor of the educational module "Architecture and Environment". In addition to teaching he is authorized architect (SKA), specialized in green architecture and passive houses (he is Certified Passive House Designer). He is chairman of the Institute for Passive Houses (iEPD) and founding member of ArTUR (Architecture for Sustainable Development) NGO. He participated in international research projects (e.g. EcoCity, Oikodomos), and he is author of a number of publications and co-author of the books "Effective Housing" and "Handbook of Sustainable Architecture".







JARMILA HÚSENICOVÁ

Slovakia

Jarmila Husenicova was born in 1953 in Zvolen. She graduated in 1977 at Faculty of Architecture, Slovak University of Technology (STU) in Bratislava. Professional experience record: 1977-1993 – urban design and territorial planning practice and Czecho-Slovak and international research activities – URBION – State Institute for Town and Country Planning in Bratislava), 1992-2006 designer of numerous master plans and applied research fellow with emphasis on territorial development - private enterpreneur activities – EKOPOLIS I. (EKOPOL). Since 1994 lecturer at University of Zilina, Faculty of Civil Engineering, Dpt. of Construction and Town and Country Planning till 2000, Expert in territorial development e.g. town and country planning, regional policy, architecture, architecture monuments, environment (especially nature protection). The concept of Territorial systems supporting the ecological stability of the country (Green Infrastructure nowadays) was formed in Czechoslovakia in the 80-s of 20th century. Under the leadership of Jarmila Husenicova General Supraregional Territorial System of Ecological Stability of the Slovak Republic - has been drawn up in URBION (i. e. State Institute of Town and Country Planning) in Bratislava within the wide interdisciplinar partner-team of experts from Brno to Kosice in 1991. GNUSES - approved by Slovak Government Resolution No. 319 -27.04.1992 is published in the Landscape Atlas of Slovak Republic (Esprit company – Ministry of Environment of Slovak Republic 2 000). In her applied research, she is mainly focused on issues of Green Infrastructure and Towns Harmonization Process in Slovakia and EU countries. Since 2001 she is Assoc. Prof. at Department of Architecture, Faculty of Civil Engineering, Slovak University of Technology (STU) Bratislava, Slovak Republic – lecturer of Town and Country Planning, applied research Project: AGENDA 21 - Sustainable countryside development belongs to European Union Innitiative INTERREG III A Austria - Slovak Republic 2007 – 2008. Currently she is Head of Department of Architecture, Faculty of Civil Engineering, STU. Membership of professional bodies: Slovak Chamber of Architects, Bratislava.



ASSOC. PROF., PHD. MARTINA ZBAŠNIK-SENEGAČNIK



Was born in Ljubljana. She graduated at the University of Ljubljana, Faculty of Architecture, Slovenia, in 1986. She received a Master Degree in 1992 and in 1996 a Ph.D. degree (Negative influences of building materials on the environment and human beings). Since 1988 she has been working at the faculty, first as a teaching assistant, in the year 2000 she became an assistant professor and in 2009 an associate professor. She teaches the subjects Ecological building principles, Technology of building and building materials and Design studio. Her main working focus is the field of energy efficiency (passive houses, low-energy houses, energy-efficient building technologies), ecological use of building materials, natural materials, sustainable architecture, contemporary materials for facades, building technologies. She was the research programme leader at Faculty of Architecture (Sustainable planning for the quality living space) in 2009-2011. She is the author of two monographs: Fasadni ovoj (Façade) (co-author) and Pasivna hiša (Passive house) (both Slovene language) and numeral articles in scientific and professional magazines in Slovenia and abroad. The monograph Passive House was also published in Croatian and Bulgarian language. She is a member of the Council for the efficient use of energy by Ministry of the environment and spatial planning, member of Photovoltaic technology platform – working group Integration of solar power stations in the building. Her reference is also the organization and leadership of professional seminars for the architects since 2004 (the topics: energy efficiency, passive houses, building technologies). She is a founder and a leader of Passive House Consortium since 2008.



KEN STUCKE South Africa

Mr Ken Stucke, Born in South Africa, grew up in Malaysia, England and France, graduated from Wits University with Bachelor's degree in Architecture, currently is a Senior Lecturer in the subjects of Design, Construction, and Building Performance at The University of Johannesburg's School of Architecture. Ken is also the sole director of Environment Response Architecture. ERA Architects is an experienced and award winning architectural practice providing specialised expertise on architectural projects with an environmental agenda, green architecture and sustainable development. Ken has also worked hands on as a contractor in various countries, ranging from France and England to Botswana and South Africa. This length and breadth of experience has provided him with a firm grasp of the environmental and technological issues at work in the construction industry.



PROFESSOR ENRIQUE CORBAT DÍAZ

Spain

Architect from Barcelona School of Architecture ETSAB (UPC) since 1983 Speciality in bioclimatic architecture. Scholarship holder of Training Plan of Research Staff from Spanish Science and Education Ministry (1986-1989). Since 1989 professor in building construction department in Vallés School of Architecture ETSAV (UPC). Teaching centred in bioclimatic architecture and sustainable buildings.

Investigations in Thermal Rehabilitation of Buildings. Since 1997 continuously teaches an elective course on Bioclimatic

Architecture. In 1980 he won first prize in a competition for ideas for an exhibition center of alternative energy in the International Fair of Barcelona. He has designed and built several bioclimatic buildings along his career. Finalist at the FAD prizes of Architecture in 2001 by a bioclimatic natural cooled building housing located in old town district of Barcelona. Speaker at various courses and conferences in the Association of Architects, conferences always related to solar architecture issues and sustainability. Speaker at the Catalan Congress of Renewable and solar energy 1987 and Scientific meetings of the Mediterranean environment and building energy, 1990. Professor in Graduate Program Installations in buildings. Polytechnic Foundation of Catalonia. 2002-2008. Professor in sustainability, technology in architecture and integration of renewable energies UPC's masters. Faculty advisor of eco team in Solar Decathlon Europe competition Madrid 2012. Technical committee member of Low3 and Ressò teams in Solar Decathlon Europe competition Madrid 2010 and Versailles

2014. Professor of teams finalists in Multi-confort house students competition in Bratislava 2012 and Belgrade 2013. Professor of two winner teams of Spanish competition Multi-confort house competitors in Bucharest 2014 and Astana 2015.









Spain

Architect ETSA Valladolid. Professor of design and projects, 1992. Scholarship MEC (1988-1992). Prize Academy of Spain, Rome (1990-91). Doctor architect ETSAV (2001, outstanding cum laude). Finalist IV award Arquithesis (2003). Award doctorate extraordinary, ETSA, Universidad de Valladolid, 2002-2003. Professor Master of research in architecture, ETSAV. Member of the Research Group Recognised Architecture and Cinema GIRAC. Publications: Transparency and opacity in the houses of Marcel Breuer (2002); San Carlino: the geometric machine of Borromini (2003, Prologue: Paolo Portoghesi); Mario Ridolfi, architecture, contingency and process (2007, 2014); Alvaro Siza (BAU 1996), Fisac (2008), Paulo Mendes da Rocha (DPA UPC 2014); Alojamiento para otros modos de vida (2015). Conferences: Plan Obús de Le Corbusier versus Metropolis de Fritz Lang (AVANCA, Cinema 2016); Actions to recover the absent city. Simultaneity and Hipersocialization. (Housing – A Critical Perspective, Liverpool, UK, 8-9 April 2015); From Ronchamp to Venice hospital. Myth religious and memory collective in the last LC (symbolic spaces of the modernity, Covarrubias, 2014); Hallucinatory Strategies in the last LC (Critic All, Madrid, 2014); Firminy Church and the machine à émouvoir of LC (CEAA, Porto, 2012). Works and projects: recognition and awards in competitive contests, collected in publications and exhibitions: first prize Benta-Berri, 1993; Fourth prize Europan III, 1993; First prize and second prize of architecture in Castilla y León (CyL) 98-99; Mention V Prize Julio Galán Carvajal, 2001; Selected VI HISPALYT brick architectural award, 2002; Third prize Sports Center in Santander, 2002; Honorable mention of sustainable construction CyL, 2007; First prize and finalist in architecture in CyL 2008-10; Architecture in Zamora XXI century, 2011; Third Prize: Center of companies in Torrelavega, 2013.



MANUEL MONTESDEOCA CALDERÍN

Spain

Architect by the Architecture School of Las Palmas de Gran Canaria University (EAULPGC) since 1986, specialized in Building and Urbanism. Intern of the Training Plan for Research Personnel of the Ministry of Education and Science (1987-1989). Associate Professor of the Department of Architectural Construction from 1990 to 2006. Assistant Professor in the Department of Architectural Construction since 2006, teaching in subjects related to Environmental Conditioning of buildings, Bioclimatic architecture, Sustainable architecture, control of energy demand and Energy efficiency of buildings, zero energy buildings (nZEB) and architectural acoustics. Doctor Architect by the University of Las Palmas de Gran Canaria, since January 2016. Has developed investigation work in relation to the above mentioned subjects and has participated in a multidisciplinary team, responsable of elaborating a guide on the "Study of the envelope of the building using Canary materials", in a specific agreement of collaboration with the Public Works and transportation counseling of the autonomous community administration. Coordinating professor of the "ISOVER MULTICOMFORT House International Competition", from the Architecture School of Las Palmas de Gran Canaria University (ULPGC). In 2010 he joined the research group LIP (a) (Research Laboratory of Architectural Projects). In 2011 he assumed the position of vice principal of Quality Assurance at the Architecture School of Las Palmas de Gran Canaria. In 2015, he becomes a member of the research team of the proyect BIA2015-64321-R, "Energetic impact of air permeability of residential buildings in Spain: Study and characterization of their infiltrations (INFILES)", as part of the State Program Of Research, Development and Innovation Oriented to the Challenges of the Society, Call 2015, Modality 1: "R + D + I Projects". Its main investigator is D. Jesús Feijo Muñóz, university professor, Department of Architectural Constructions, Engineering of the Land and Mechanics of the Continuous Means and Structure Theory of the University of Valladolid. In 2016 he joined the Architecture and Landscape Research Group of the ULPGC.



PROF. DR. ABDURRAHMAN KILIÇ

Turkey

Starting his initial studies about fire at Istanbul Technical University in 1987, Prof. Dr. Abdurrahman Kılıç recognized fire department closely thanks to the training he received in Japan in that period and then dedicated himself to gain scientism for fire department in Turkey, improve the prestige of fire fighters and recognition of fire department in public opinion. Working as a Director of Istanbul Fire Department with his such efforts between 1989 and 1994, Kılıç is the most recognized and reliable person about fire and security today in Turkey. Still an instructor in Istanbul Technical University, Faculty of Mechanical Engineering, Prof. Dr. Abdurrahman Kılıç has pioneered the studies performed about fire security, brought numerous innovations to Fire Department as well as the studies to issue the first Fire Regulation in Turkey and made significant contributions to the development of fire department.



ARCH. ALI ERKAN ŞAHMALI

Turkey

Having graduated from METU, Faculty of Architecture at the top of his class in 1979 and completing his master's degree in 1981, he became a Professional Architecture. He still works as a part-time instructor in METU, Faculty of Architecture and runs the Presidency of Turkish Consultant Engineers and Architectures Association. Since 1983, Ali Erkan Şahmalı has been the director of Project/construction management, consultancy, design and design management projects of GÜNARDA Project Management-Research and Consultancy Inc., in his capacity as a partner, board member and general director.



ARCH. DURMUŞ DILEKÇI

Turkey

He graduated from Ankara Gazi University (GU), Faculty of Architecture in 1992. He completed his master's degree in Istanbul Technical University (ITU), Faculty of Architecture in 1996. He started to work with Gökhan Avcioğlu in 1994 and they established GAD Architecture entity in 1999. Before creating DDA, Durmuş Dilekçi founded Uras Dilekçi Architecture (UXD) firm as a partner with Emir Uras in 2003. Changing its name, Uras Dilekçi Architecture (UXD) firm has continued its activities as Dilekçi Architecture (DDA) since 2014. DDA aims to take its experience for years and knowledge further. Durmuş Dilekçi has also took part as a guest instructor since 2003 up to now, in important universities of Turkey; including Istanbul Technical University, Yıldız Technical University, Bahçeşehir University, Beykent University. He still gives Architectural Design lessons in Istanbul Technical University.



ASSISTANT PROF. DR. GÜLTEN MANIOĞLU

Turkey

Architecture, Gülten Manioğlu has been an instructor in Istanbul Technical University (ITU), Faculty of Architecture since 1993. She took part in several research projects about Energy Efficient Design of Buildings. She has several studies and publications on Energy Efficient Building Design, Use of Solar Energy in Buildings, Water Protection in Buildings, Rain Water Output in Settlements. She currently has classes as an assistant Professor in I.T.U., Faculty of Architecture, Department of Physical Environment Control. She has been a board member in International Association of Building Physics (IABP) since 2009.







ARCH, HAKAN DEMIREL

Turkey

Hakan Demirel, who was born in 1983, graduated from Yıldız Technical University (YTU), department of Architecture. He took part in many national-international contests and workshops throughout his learning life. He has been in New York between 2007-2008 for educational purposes. After returning back from New York, he founded "Suyabatmaz Demirel Architecture" in 2008 as a partner, where he still maintains his Professional studies. Despite his short-term background, Suyabatmaz Demirel Architecture has won many architectural and real estate awards up to now. As well as many successful projects executed as an Office, Hakan Demirel was selected one of the best 40 young architects of Europe in 2011 with "Europe 40 Under 40" award. Hakan Demirel, at the same time, runs part-time studio management as of 2012 in design studio of Yıldız Technical University.



PROF. DR. MEHMET ÇALIŞKAN



Receiving his bachelor's degree and master's degree at Middle East Technical University (METU), Department of Mechanical Engineering, Prof. Çalışkan completed his doctorate study in North Carolina State University in the field of acoustics. Still working in METU, Department of Mechanical Engineering, Prof. Çalışkan is also included in teaching staff of METU, Faculty of Architecture. His academic fields of occupation include acoustic, architectural acoustic, noise control and random vibrations. In parallel to his academic activities, he mentors a great many organizations in Rail Transportation, Automotive, Construction Equipment and Machine Industry sectors as well as Building and Insulation industries.



LECTURER GUILLERMO GUZMAN DUMONT

UK

Full time Lecturer and director of External Relations and Communications at the Department of Architecture and Built Environment at the University of Nottingham, United Kingdom. Graduated from Architecture at the Universidad del Bio-Bio, Concepcion Chile in 1993, then carried out studies of MSc Renewable Energy and Architecture and PGCHE (postgraduate certificate in higher education) at the University of Nottingham from September 2000. He has over 15 year of experience in teaching design studio and have researched in Sustainable Energy Technologies integration to architectural design, post occupancy evaluation, pedagogic approaches in architecture related to identity, globalisation and ethics. One of the principal investigators of the Creative Energy Homes project sponsored by a number of important UK housing developers and researcher in the UK entry for the Solar Decathlon Europe 2010. Visiting professor at the Pontificia Universidad Catolica, Universidad del Bio-Bio and Universidad Tecnica Federico Santa Maria of Chile. He has set up a number of joint courses and collaboration agreements with prestigious Latin American universities, given keynote presentations, run workshops and organised joint conferences. He has been running the ISOVER competition studio for the last two years.



PHD. ARCH. NELLYA LESHCHENKO

Ukraine

Architect. Graduated from the Faculty of Architecture, Kiev Civil Engineering Institute. In 2000 obtained degree of PhD in Architecture at Kiev National University of Construction and Architecture (KNUCA). Since 2000 - the chief architect of design and construction firm. Author of more than 100 architectural projects. Since 2010 – associate professor, Department of Information Technology in Architecture (KNUCA). Curator of students diploma projects, awarded at national and international competitions. Tutor of masters and postgraduate students. Research fields: revalorization of historical centers of small towns, renovation of urban space.



DOCENT TETYANA KASHCHENKO, PHD

Ukraine

She is architect, docent of the Department of Architectural design of Kyiv National University of Construction and Architecture (KNUCA). Her architectural professional activity is focused on architectural design of dwelling and civil buildings. Graduated with Master Degree from Architectural faculty of KNUCA. In 2001 obtained degree of Ph.D. of Architecture. At the Architectural faculty she teaches Architectural design, Theory of architectural design, launched lecture course "Architecture of energy efficient buildings". Tutor of post graduate students, bachelor and master degree. Curator of students diploma and contests projects, awarded at national and international competitions. Fulfilled internship at Architectural department of Gent State University (Belgium), course of International Passive House Summer School, Fachhochschule Karnten, Austria. Was coordinator of Ukrainian national team of EASA and coordinator of student research work in international project "RKM Save Urban Heritage". Took part at International student workshop "Smart city. City as an educational polygon", Foundation Romualdo del Bianco, Florence (Italy) as a teacher. Has publications in scientific and professional editions, professional magazines. Member of organization committee of International conference "Energy Integration", initiator and leader of several students architectural contests, exhibitions and conferences in the field of sustainable and energy efficient architecture.





2018 Edition



Invitation for Competition Submissions
MULTICOMFORT HOUSE STUDENTS CONTEST
2018

Community development in Dubai

International, two-stage, open competition, 2018 edition

Content: Community development located in the

perimeter of cultural village of Dubai

Participants: Students

Organizer: Saint-Gobain Group

Official Website: www.isover-students.com



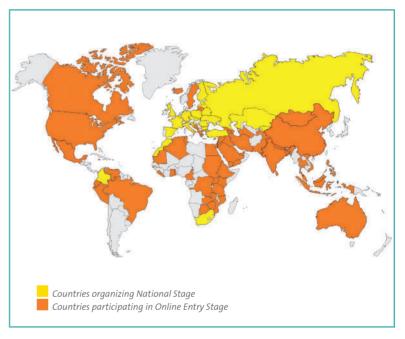
The task for 14th International Edition of MULTI**COMFORT** House Students Contest developed by Saint-Gobain in close collaboration with Municipality of Dubai requires the participant to develop a vision for a transcultural vibrant community development located in the perimeter of cultural village of Dubai. The design will have to propose a viable combination of residential and public spaces such as cultural, commercial, others.

Residential

The territory is conceptually proposed to be developed by taking advantage of the water front without interfering with the view of the closely by situated MFH buildings. Special attention will be given to maximizing the comfort of the inhabitants for all four comfort dimensions (thermal, acoustic, air quality, visual) by taking in to account the local climate data and the specificities of the place.

Public places

This is entirely up to the decision of the authors to propose according to their vision. This public space should contribute to make this area a vibrant areal also during the harshest summer time when the temperature exceed 45 degrees in the shadow.



Participating countries to final stage of MULTICOMFORT HOUSE STUDENTS CONTEST, EDITION 2017

More information about the new edition of the contest as well as full task, pictures and documents, site plan can be found at: www.isover-students.com













01

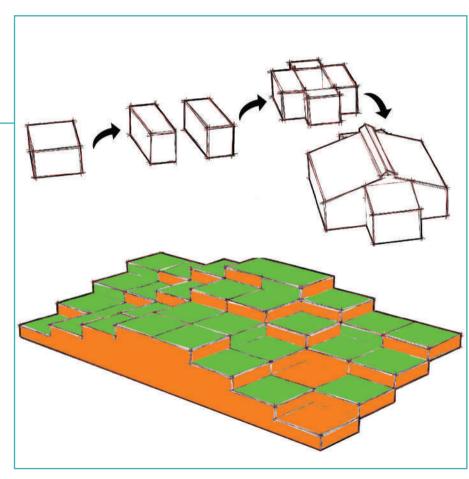
PRIZE
INDIA
Online Stage 2017



LOKESH RAGHUL.J

Anna University

Urban Regeneration of a community in Madrid Madrid, Spain



I PRIZE

MULTICOMFORT House Students Contest Online stage 2017









PRIZE
BELARUS
National Stage 2017



02

VERONIKA SUPRUNIUK

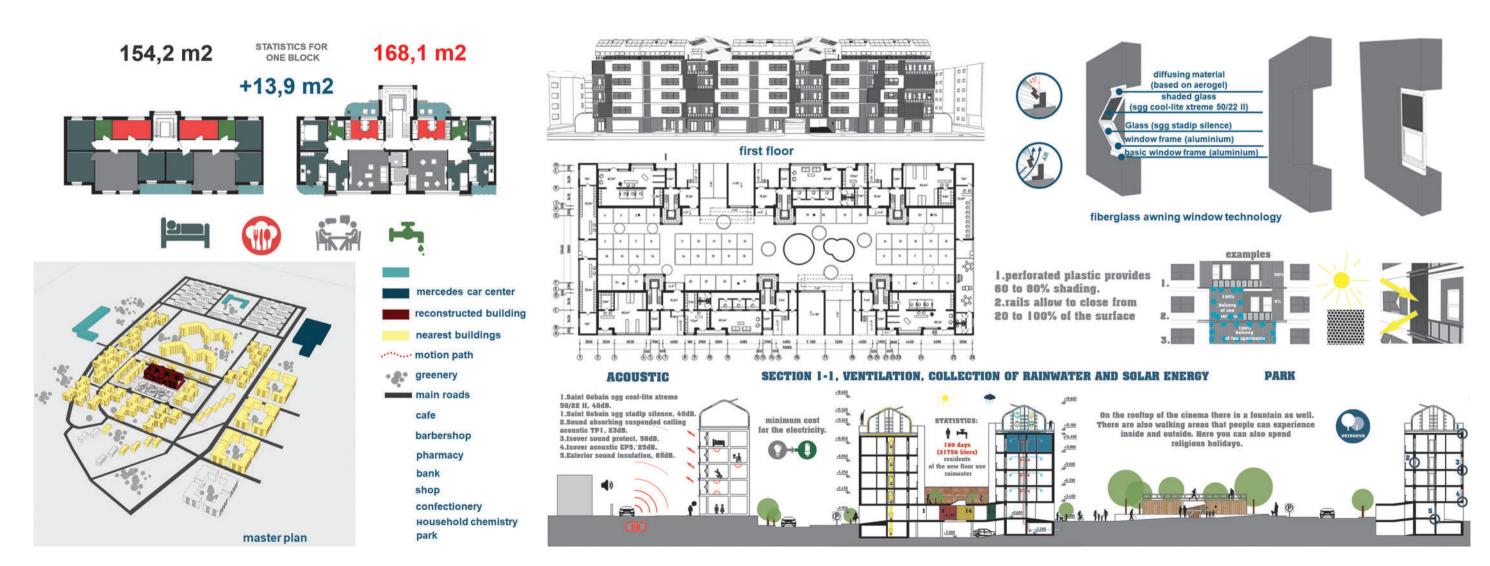
BNTU

Urban Regeneration of a community in Madrid Madrid, Spain











PRIZE
BELARUS
National Stage 2017



03

VYSOTSKAYA



NIKITA MAKAREVICH

BNTU

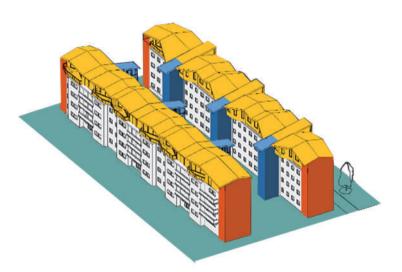
ALINA

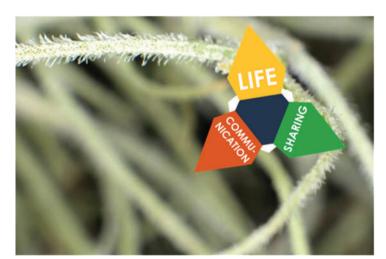
Urban Regeneration of a community in Madrid Madrid, Spain

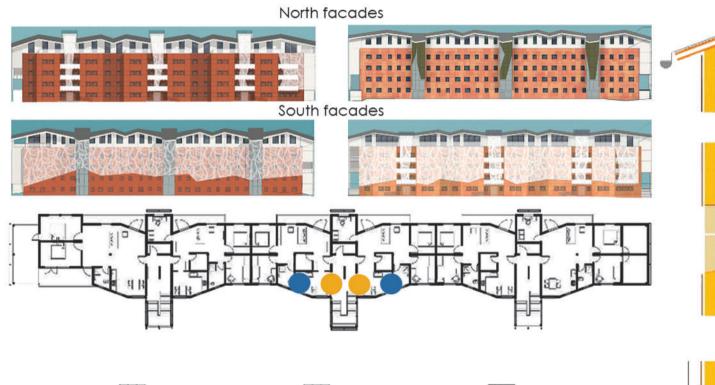
















Saint-Gobain glass triple glazing SGG COOL-LITE ST + SGG CLIMATOP LUX

2.5 Rigips Rigidur H double layer ISOVER Vario KM Duplex UV 4 ISOVER Akustic EP3 (horizontal wood) 12 ISOVER Integra ZKF 1-032 (vertical wood) 1.5 OSB board 10 ISOVER Kontur FSP 1-032 Easy Fix

(vertical wood) 3 Rear ventilation

1 Exterior cladding (wooden panels)

1.5 interior plaster 30 Bearing brick wall 16 ISOVER Kontur FSP 1-032 Easy Fix (wood vertical) 16 ISOVER Kontur FSP 1-032 Easy Fix (wood horizontal) 3 Rear ventilation 1 Exterior cladding (wooden panels) 0.5 Perforated facade panels



PRIZE
BELGIUM
National Stage 2017



04







MARIE MOORS



THOMAS CALLAERTS

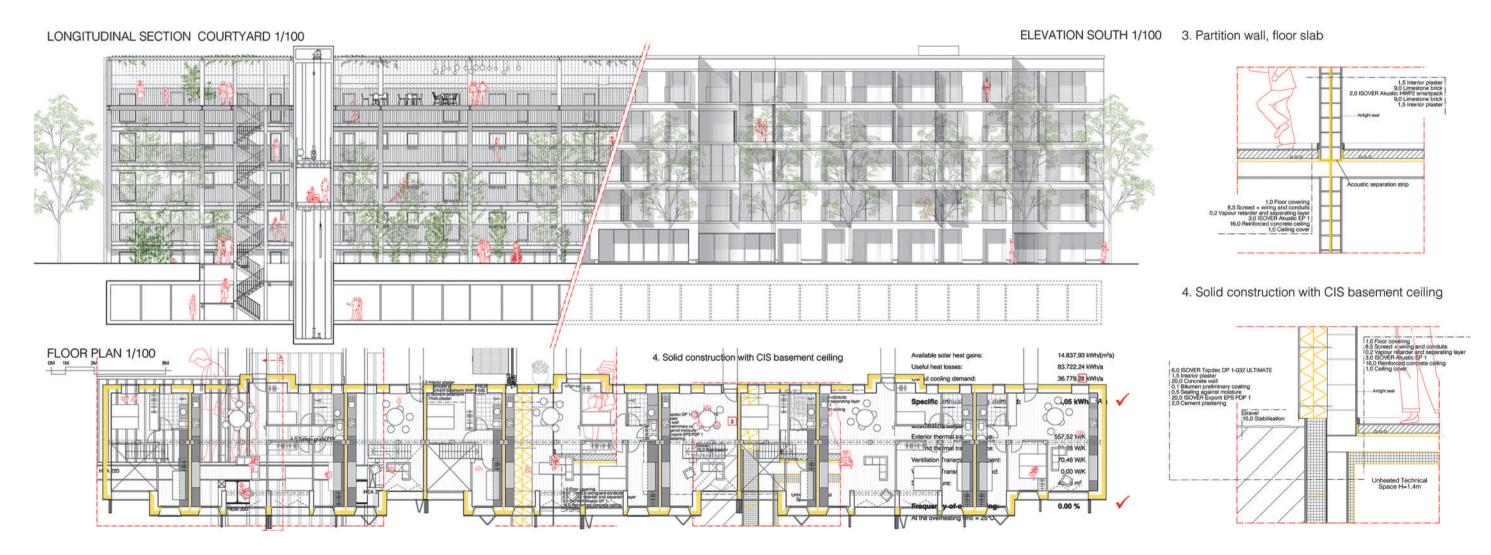
University of Hasselt Belgium

Urban Regeneration of a community in Madrid Madrid, Spain











PRIZE
BULGARIA
National Stage 2017



05





ANGEL PETRAKOV

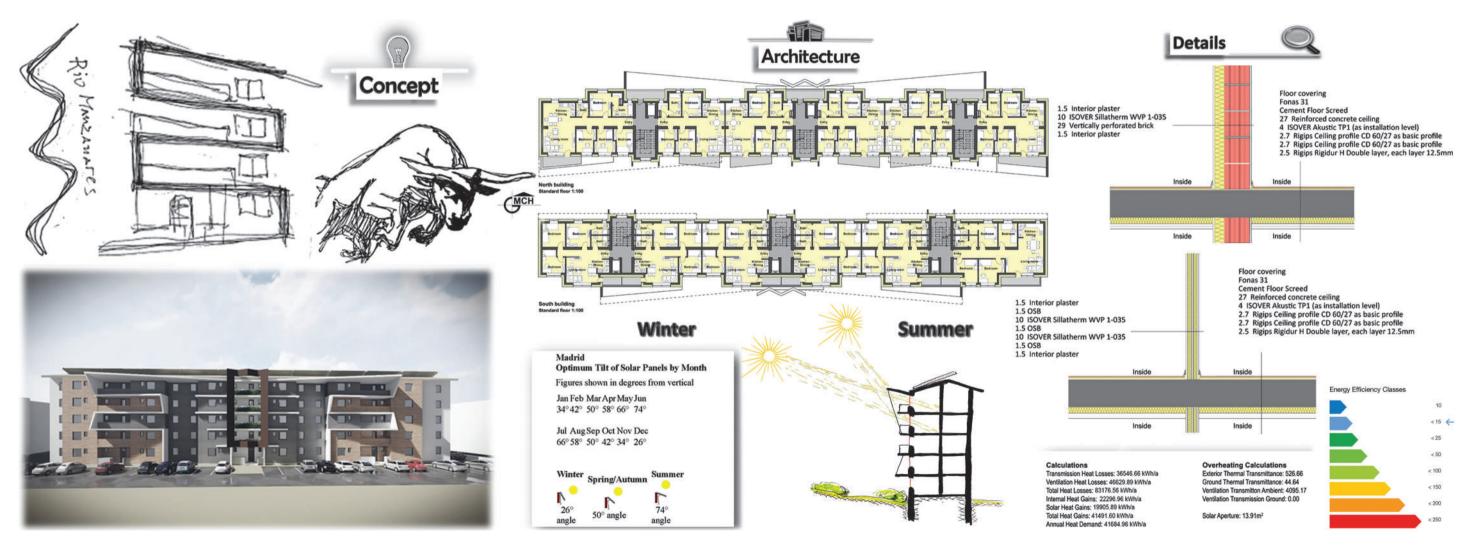
POLINA SLAVOVA

VSU "Chernorizetz Hrabyr"











II PRIZE BULGARIA National Stage 2017



06

10 50



HASAN HASANOV

VSU "Luben Karavelov"









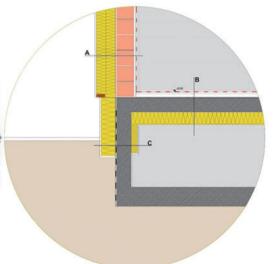
FASADE NORTH



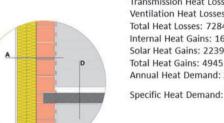
FASADE SOUTH



FASADE EAST



DETAILS



CALCULATIONS

Specific Heat Demand

Transmission Heat Losses: 8345.95 kWh/a Ventilation Heat Losses:603.25 kWh/a Total Heat Losses: 7284.93 kWh/a Internal Heat Gains: 1670.05 kWh/a Solar Heat Gains: 2239.11 kWh/a Total Heat Gains: 4945.46 kWh/a Annual Heat Demand: 3532.61 kWh/a

Specific Heat Demand: 10.65 kWh/(m2a)

NEW APARTMENTS







Section A in cm

1,5	Interior plaster	
25,0	Vertically perforated brick HLzW	
14,0	ISOVER Sillatherm WVP 1-035	
14,0	ISOVER Sillatherm WVP 1-035	
1,5	Thick plaster coat	

Section B in cm

Floor covering Screed PE foil ISOVER insulation ARENA PF (λ=0,032) Concrete slab (333 Kg/m2) 15 ISOVER insulation ARENA PLUS (λ=0,034) 1.3 Plaster board

1.3	Plaster board
12.0	ISOVER insulation ARENA PLUS (λ=0,034)
	Concrete wall
	Vapour barrier and waterproof insulation lay
15.0	ISOVER XPS (λ=0,032)
	External rendering
	12.0

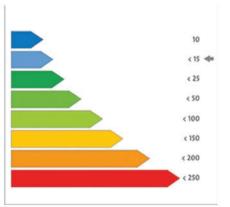
Section D in cm

Section C in cm

Floor covering Screed PE foil ISOVER insulation ARENA PF (λ=0,032) Concrete slab (333 Kg/m2) Interior rendering

Overheating

Exterior Thermal Transmittance: 156.82 W/K Ground Thermal Transmittance: 27.50 W/K Ventilation Transmittion Ambient: 12.15 W/K Ventilation Transmission Ground: 0.00 W/K Solar Aperture:13.35 m2 Frequency of Overheating: 0 %





III PRIZE BULGARIA National Stage 2017



07

ALEKSANDRINA ALEKSANDROVA

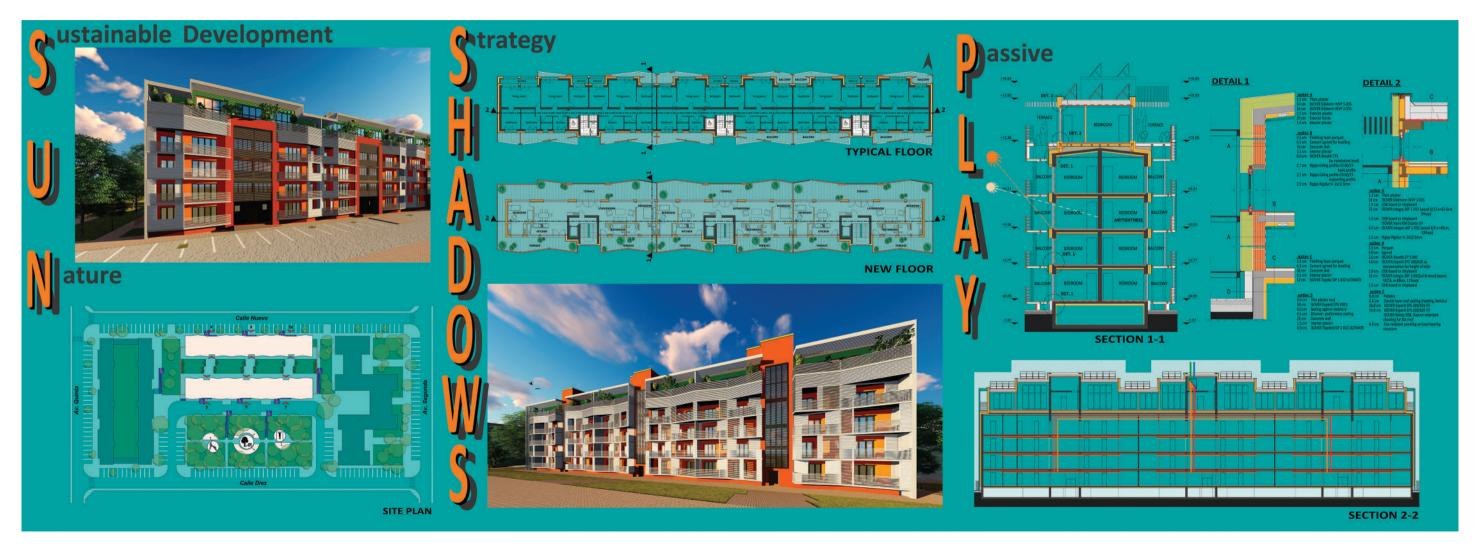
New Bulgarian University













PRIZE
COLUMBIA
National Stage 2017







MARIA CAMILA ROSALBA CANTILLO MORENO

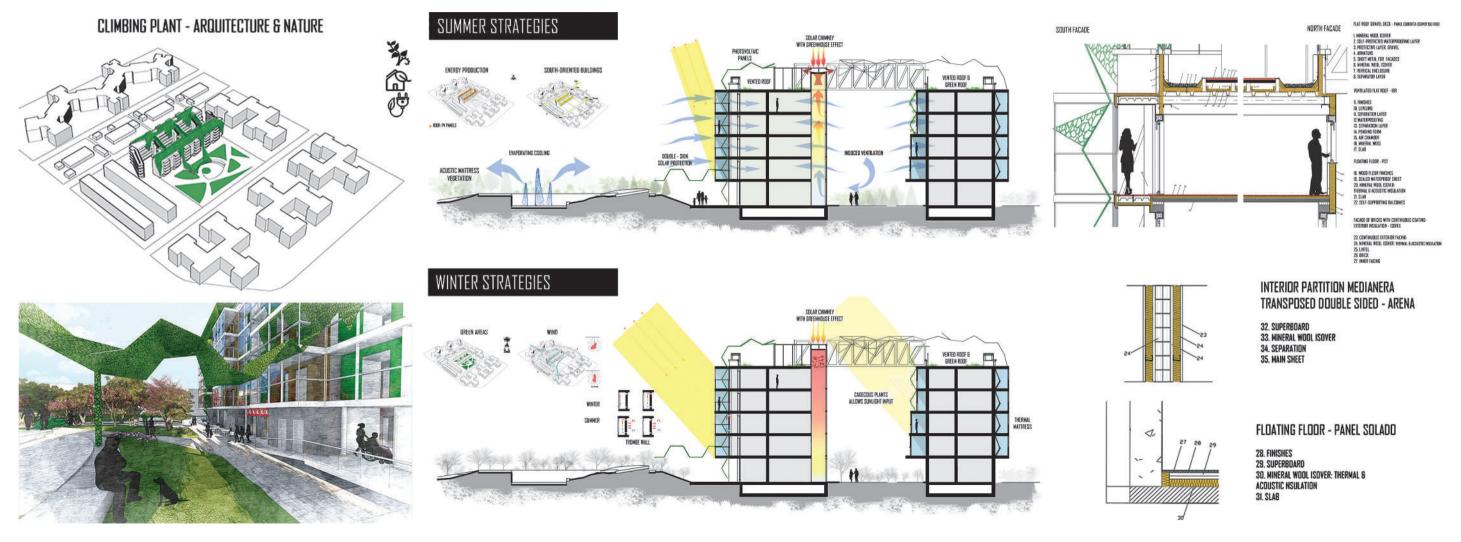
Universitad del Northe

08











PRIZE CROATIA National Stage 2017



09







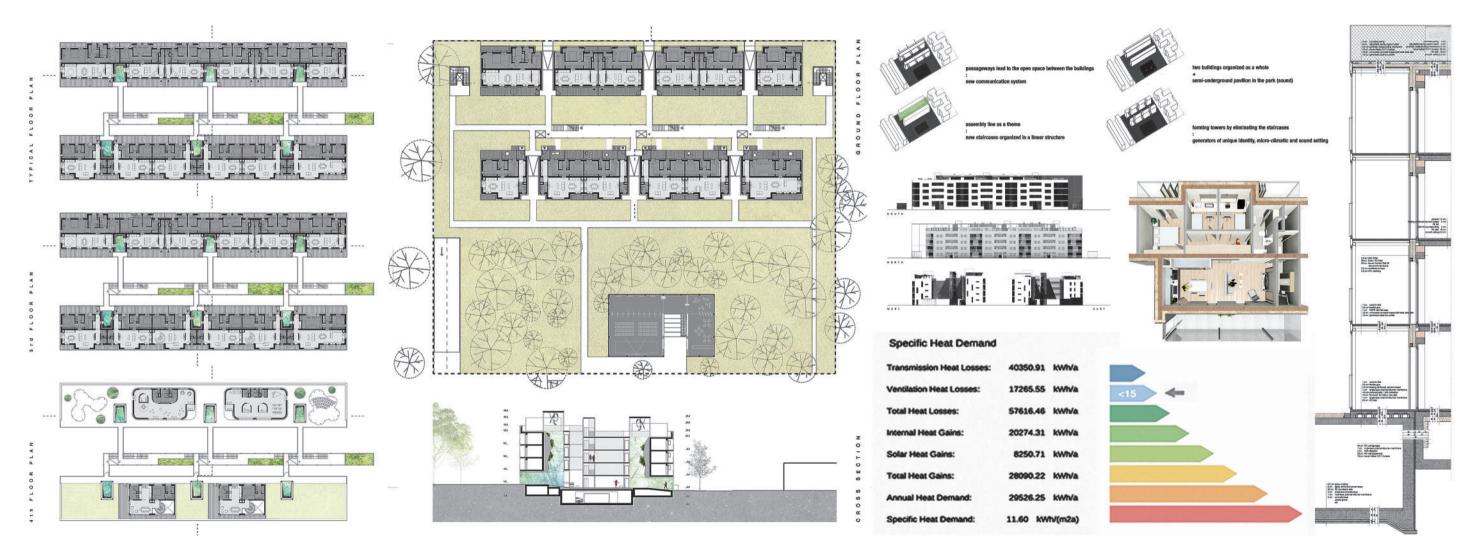
VELIMIR BENIC

University of Zagreb











PRIZE
CROATIA
National Stage 2017



10





IMANOL HERNANDEZ

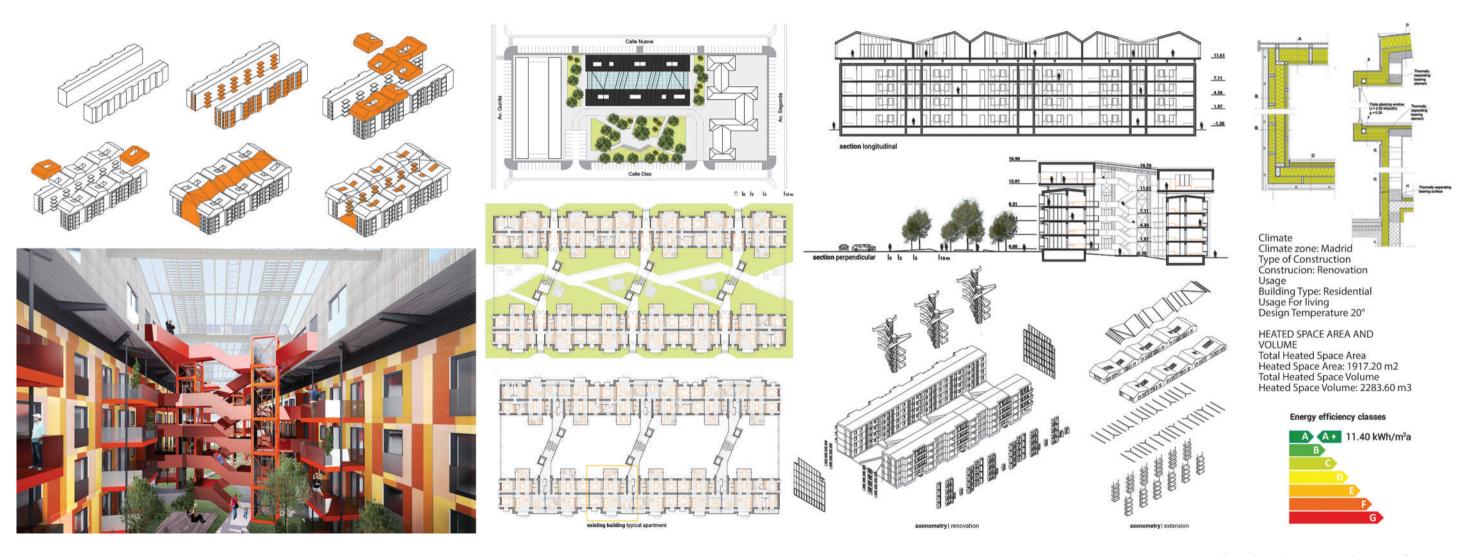
MARKO BLAGEC

University of Zagreb











PRIZE
CZECH REPUBLIC
National Stage 2017



11

TOMÁŠ TRUXA

Czech Technical University in Prague













NATURAL DAYLIGHT STRATEGY

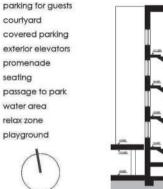
- every flat has enough sunlight
- all living rooms are situated to south - aech apartment has windows to south with view to park
- summer overheating is minimalized by exterior sliding blinds,
- sliding panels and balcony

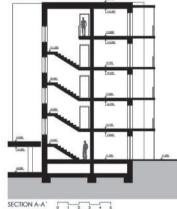


ENERGY SUPPLY AND OVERALL SUSTAINABLE CONCEPT

- primary source of energy is heat pump
- secondary power source are solar collectors
- building is conected to source of electricity and water
- solar gains are used to reduce energy demand
- controlled ventilation with heat recovery units decrease heat loss
- budiing has green roof
- underground waste containers are situated near the building











FLOOR PLAN 2ND















courtyard

promenade seating

water area

relax zone

playground



0.15 W/m²K 0,80 W/m2K

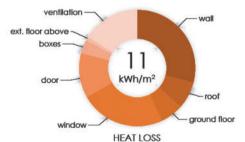
STRATEGY TO ACHIEVE

- maximal elemination of thermal bridges
- maximal airtight n⁵⁰ = 0,6 h⁻¹
- controlled ventilation with heat recovery units
- heat recovery units with efficiency over 85 %
- obtain solar energy in winter
- reduce heat gains in summer
- use sliding blinds and balconies for sun protection



STRATEGY TO ACHIEVE INDOOR AIR QUALITY

- controlled ventilation with heat recovery units
- recovery units reduce heat loss
- cascade aeration principle
- fresh air is supplied to living rooms and bedrooms
- wasted air is discharged from kitchens, bathrooms and toilets
- entired aeration system is automated
- it is possible to ventilate naturally every room











PRIZE
CZECH REPUBLIC
National Stage 2017



12

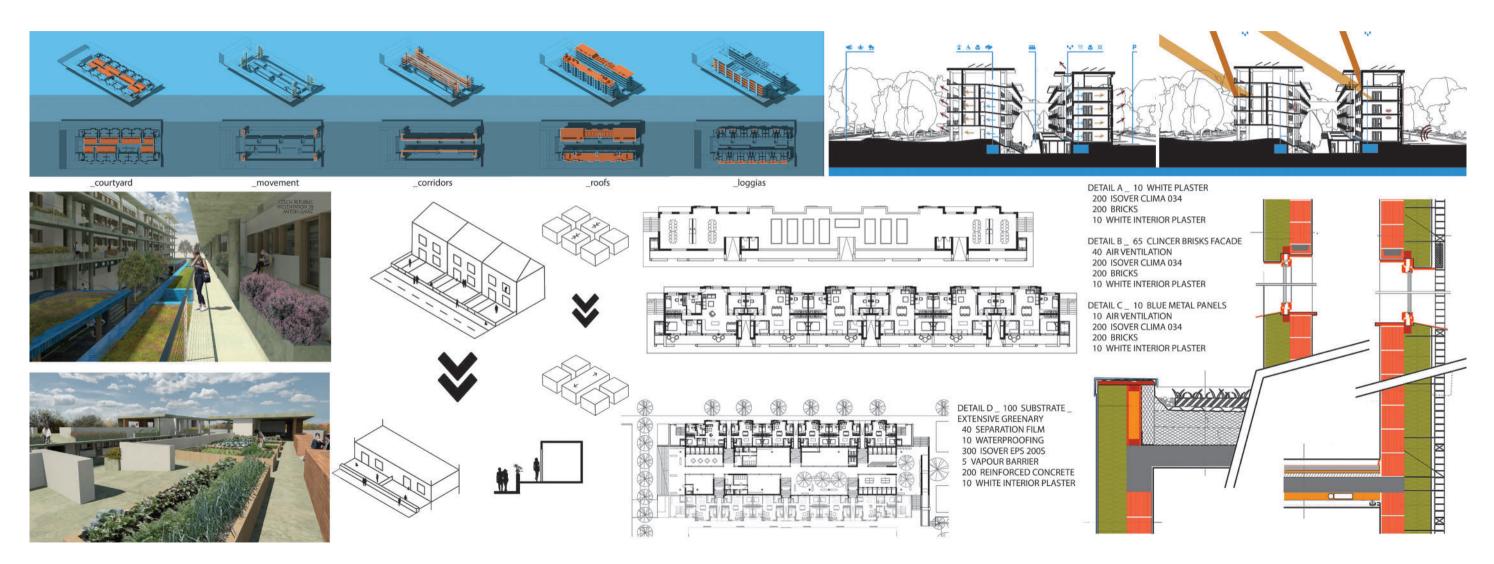
ANTON LUKÁČ

CTU in Prague











PRIZE
CZECH REPUBLIC
National Stage 2017



13

IVETA HURAJČÍKOVÁ

Czech Technical University in Prague

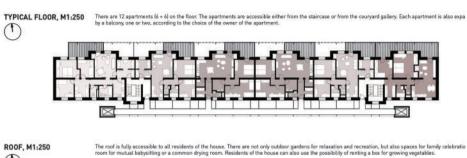


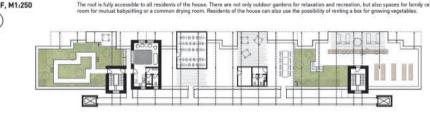






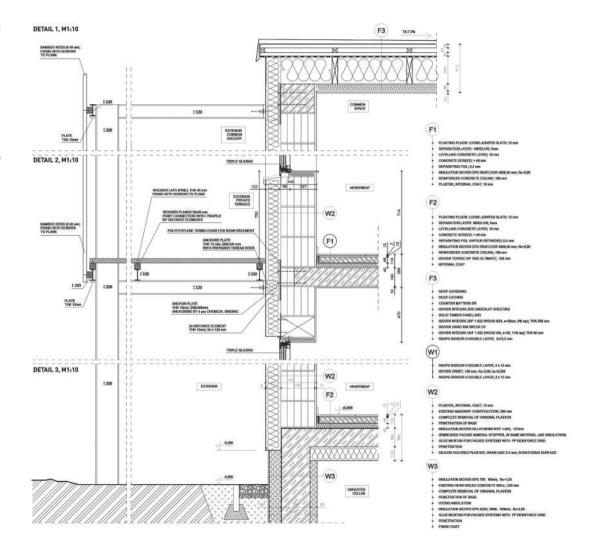






SOUTH FACADE (FROM THE PARK), M1:250







PRIZE ESTONIA National Stage 2017



14





ALLAR ESKO

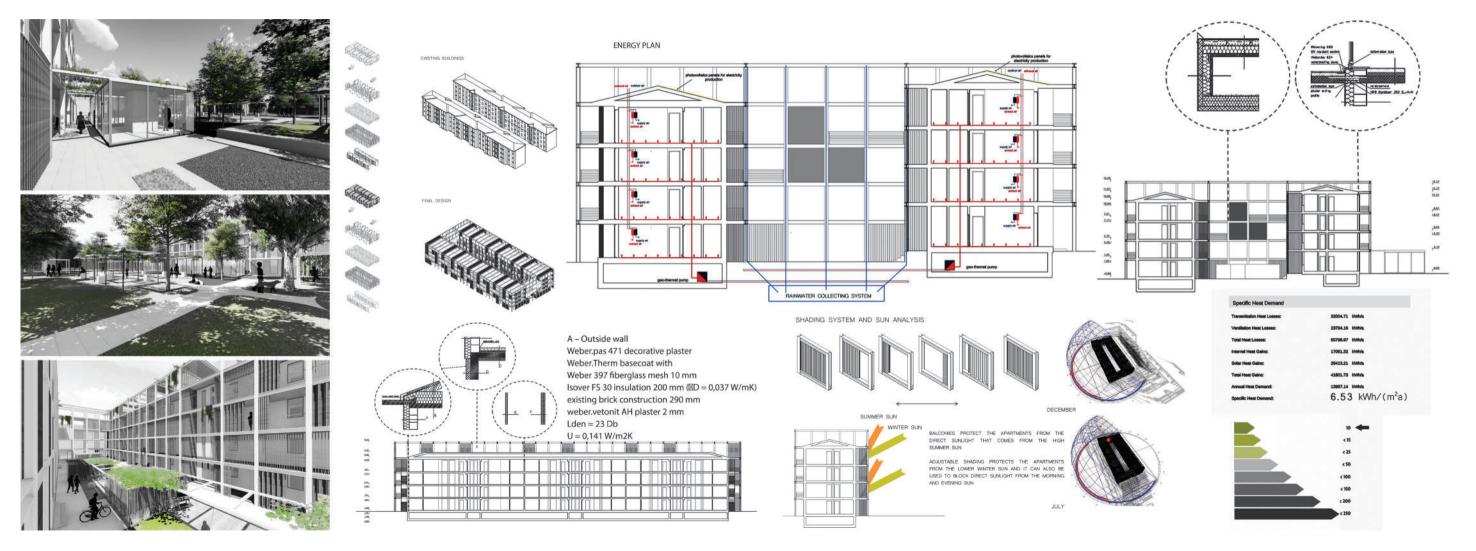
MARIANN KRUUSE

Tallinn University of Technology











PRIZE
ESTONIA
National Stage 2017



15





PRIIT RANNIK

Tallinn University of Technology

Urban Regeneration of a community in Madrid Madrid, Spain

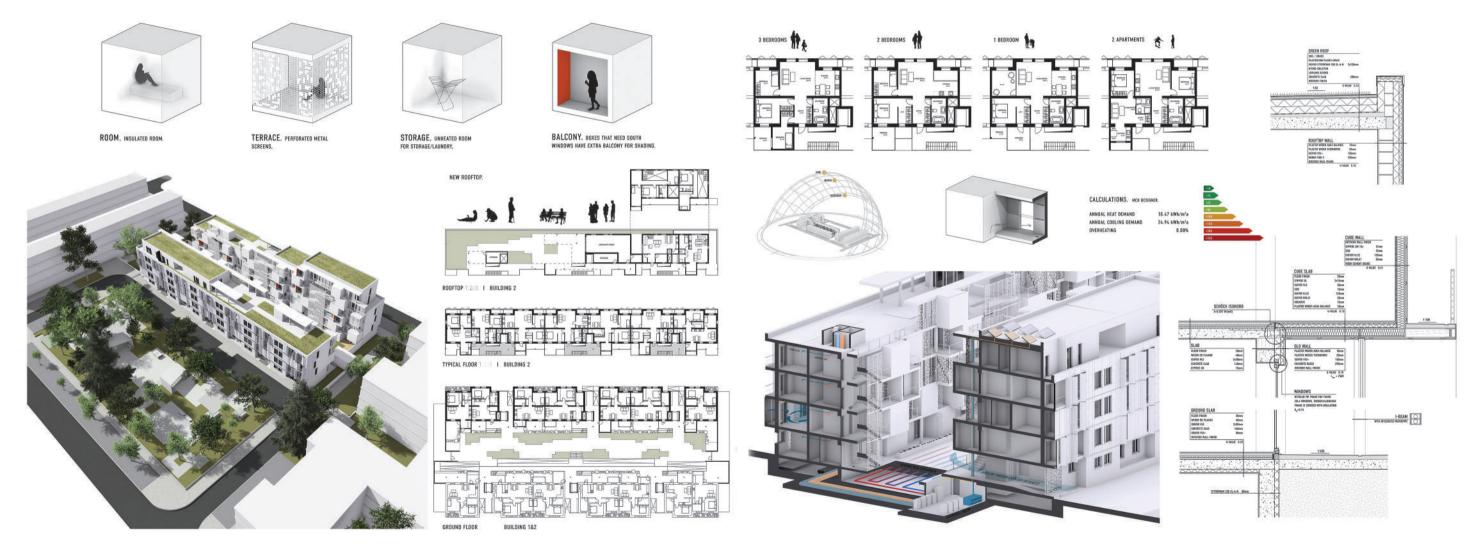


III PRIZE

MULTICOMFORT House Students Contest International stage, Madrid 2017









PRIZE FINLAND National Stage 2017



16



ELINA AHO-KEMPPAINEN

Tampere University of Technology



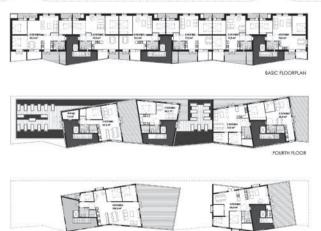




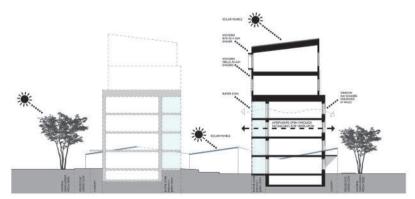


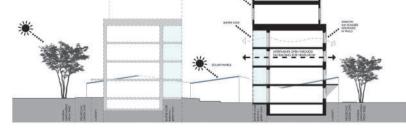












PASSIVE ENERGY SYSTEMS OF THE BUILDING



PRIZE
FINLAND
National Stage 2017



17



SEVERI HELLSTEN

Tampere University of Technology











PRIZE
FINLAND
National Stage 2017



18

(10)

VERNA ISOMURSU

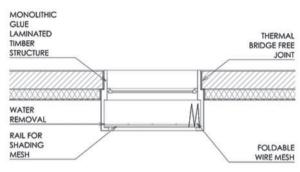
Tampere University of Technology



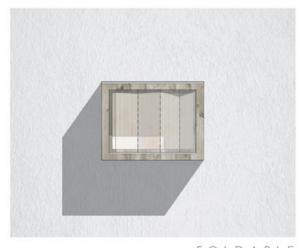








FRAMING PRINCIPLE



FOLD A B L E M E S H



PRIZE FRANCE National Stage 2017



19







CHARLES BUGNY



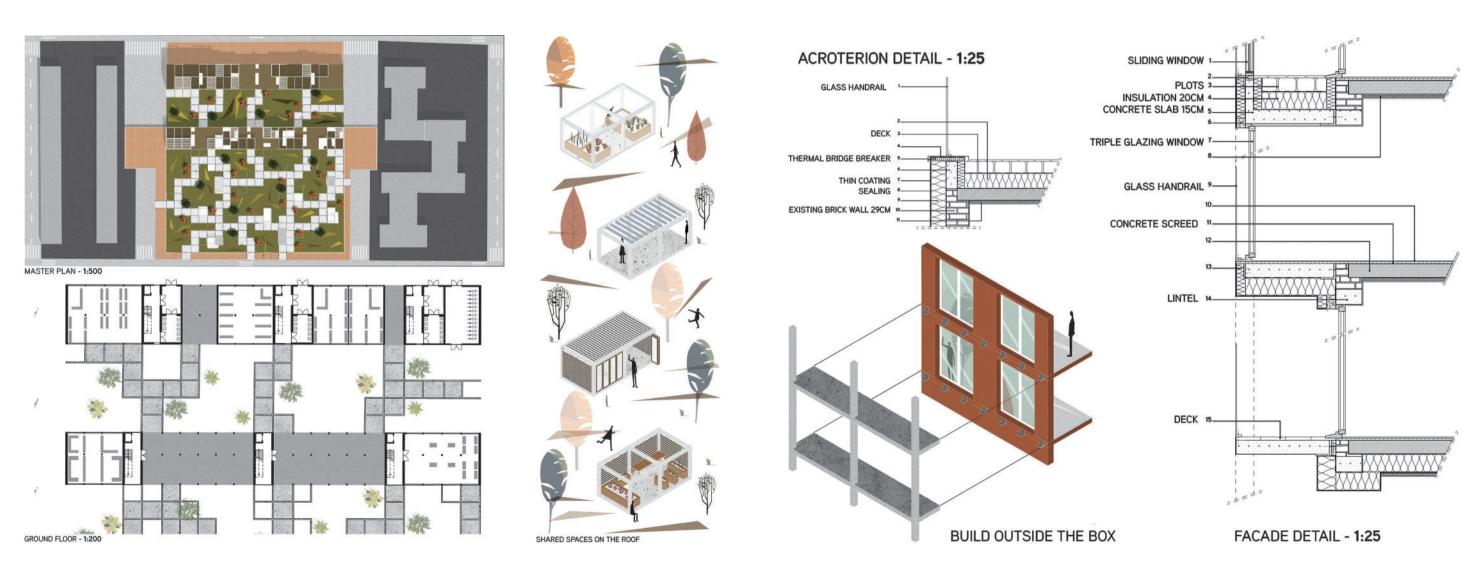
THOMAS MAGNAVAL

ENSA Paris Malaquais











PRIZE
FRANCE
National Stage 2017



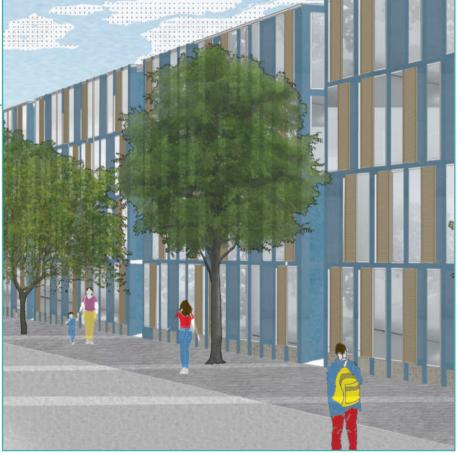
20





LUCAS YASMINE ALEZRA SABBAH

ENSA Paris Malaquais











PRIZE
GERMANY
National Stage 2017



21







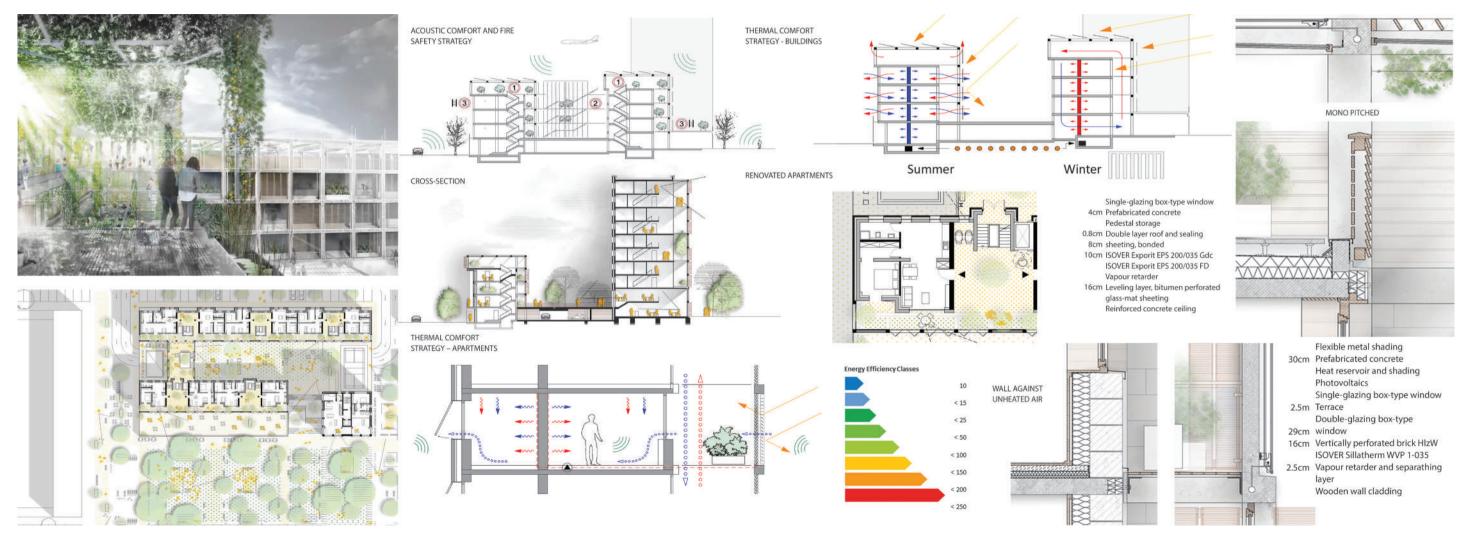
MIRIAM LEUZZI

Hochschule Darmstadt











PRIZE
GERMANY
National Stage 2017



22





LAILA HODROJ

Hochschule Darmstadt











PRIZE
ITALY
National Stage 2017



23





EVA BIAVA

MATTEO CANTAMESSA

Politechnica of Milan













PRIZE
KAZAKHSTAN
National Stage 2017



24



ELFIYA KHAMZINA

University of KazGASA



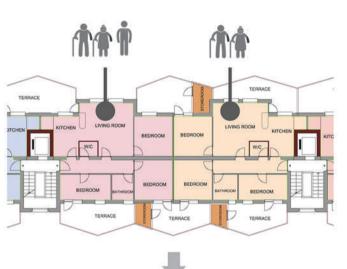


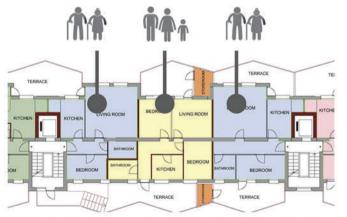




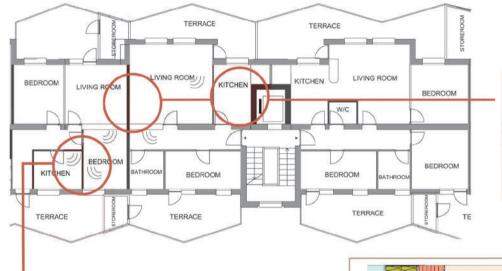








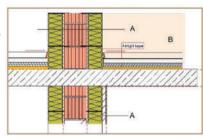
Variant of apartment redesign for young families



Partition wall

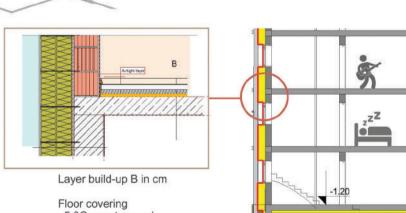
1,6 Gypros 12,5+12,5 2,5 Isover Sound insulation 3,4 Steel profile

Acoustic comfort



Layer build-up A in cm

- 1,0 Interior plaster 1,6 Gypros 12,5+12,5 7,5 Isover Sound insulation 24 Brick wall
- 7,5 Isover Sound insulation
- 1,6 Gypros 12,5+12,5 1,0 Interior plaster



5.0Cement screed Separating layer 1,5Thermal insulation 18,0Concrete ceiling

1,0Interior plaster



PRIZE
KYRGYZSTAN
National Stage 2017



25





ISKRA MOLDALIEVA

MARAT BEKOV

Kyrgyz State University of Construction











PRIZE LATVIA National Stage 2017



26



AIVA LAUMA DORBE KALNINA

Riga Technical University

Urban Regeneration of a community in Madrid Madrid, Spain



I PRIZE

MULTICOMFORT House
Students Contest
International stage,

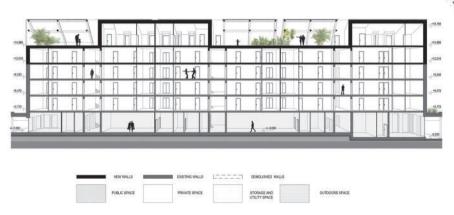
Madrid 2017

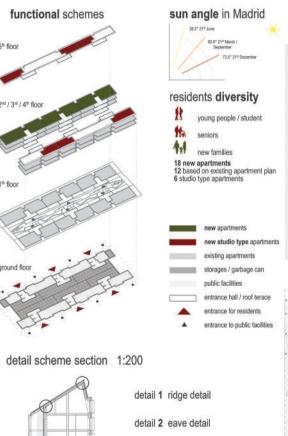






section B-B scale 1:200



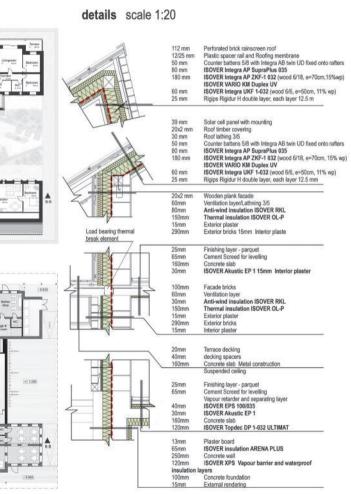


detail 3 connection of balcony

and wall

detail 4 foundation detail

4th floor plan scale 1:200 ground floor plan scale 1:200





PRIZE LATVIA National Stage 2017



27





LAURA IVANE

INESE GUSTA

Riga Technical University

Urban Regeneration of a community in Madrid Madrid, Spain



Students prize

MULTICOMFORT House Students Contest International stage, Madrid 2017









PRIZE LATVIA National Stage 2017



28





MAURĀNS RŪDOLFS

ŠADRINA MADARA

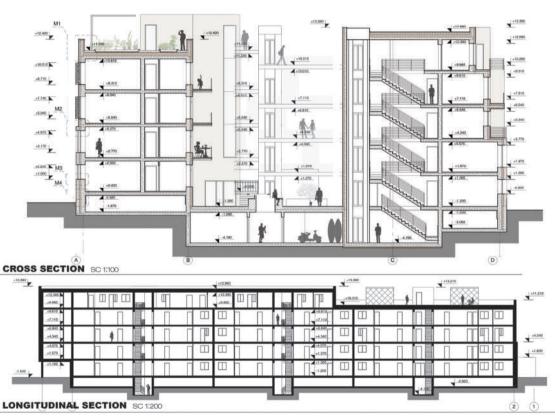
Riga Technical University

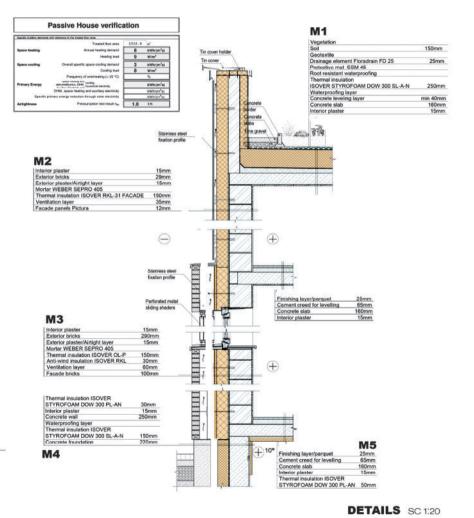














PRIZE
POLAND
National Stage 2017

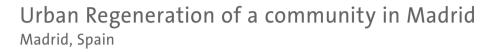


29



LUIZA KUBIZNA

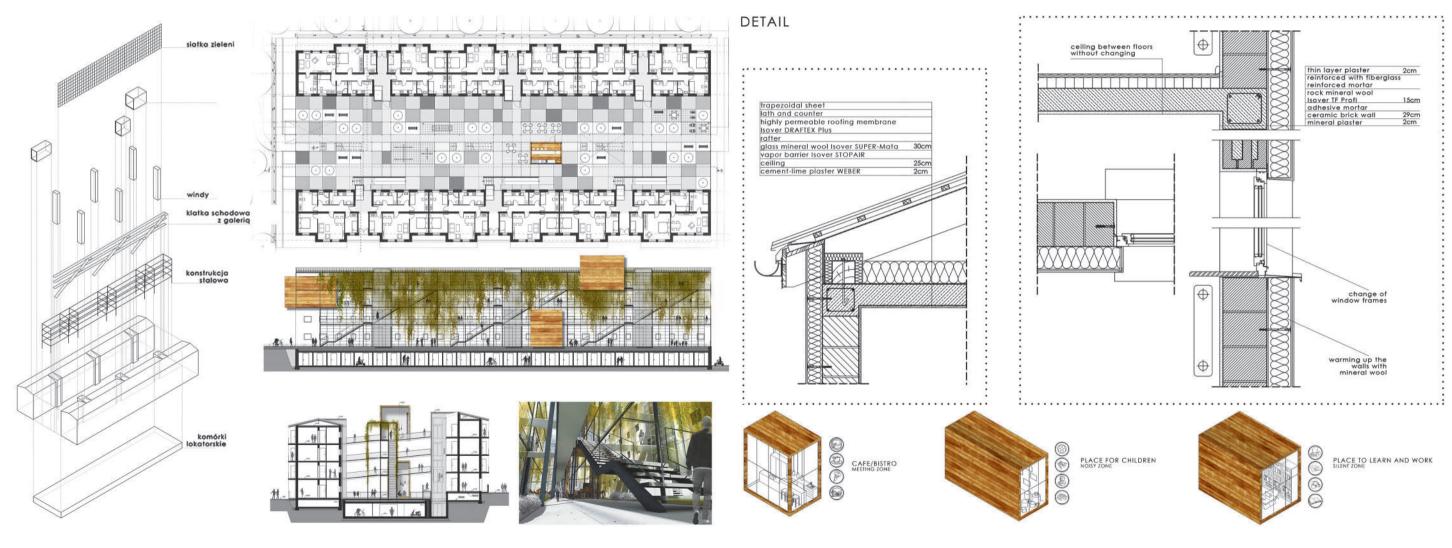
Silesian University of Technology













PRIZE
POLAND
National Stage 2017



30





ANNA TOBOREK

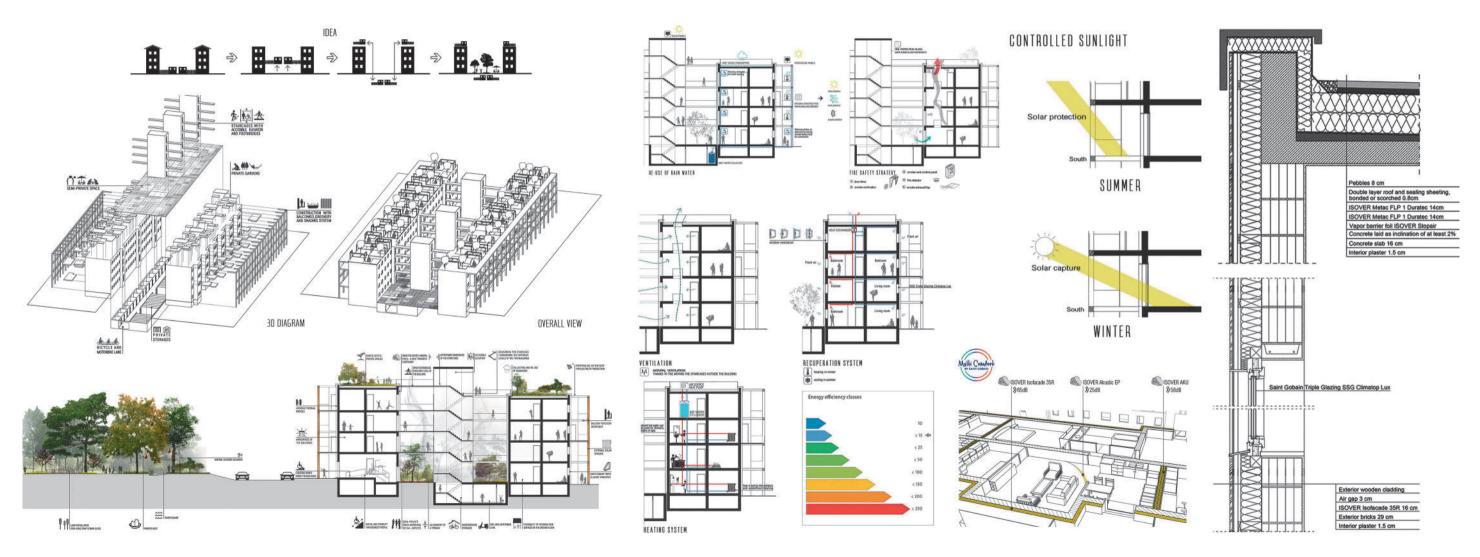
JOANNA MACHERA

Silesian University of Technology











PRIZE
POLAND
National Stage 2017



31







PAWEŁ LISIAK



DAMIAN WACHOŃSKI

Wrocław University of Technology



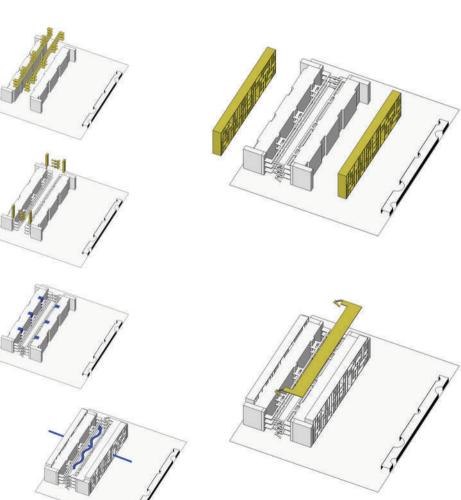


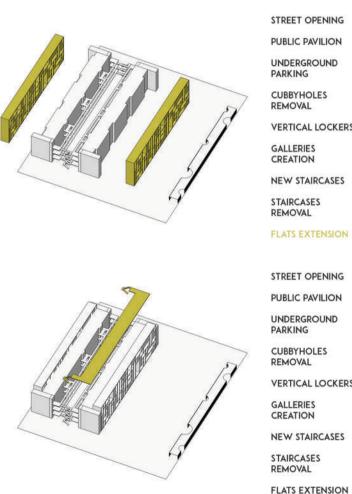


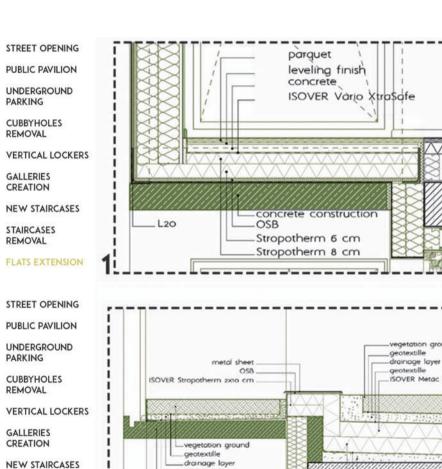




NATURAL VENTING



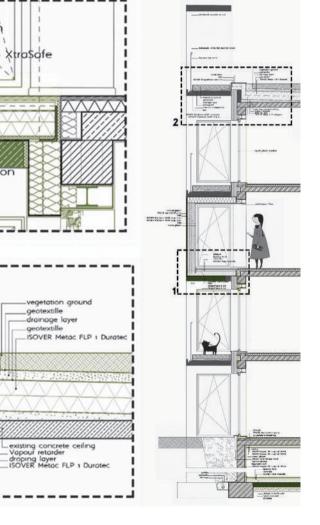




roofing felt concrete construction

SOVER Sillatherm WVP 1-035 8+10_ ISOVER Sillatherm WVP 1-035 8

UTILITY ROOF





PRIZE ROMANIA National Stage 2017



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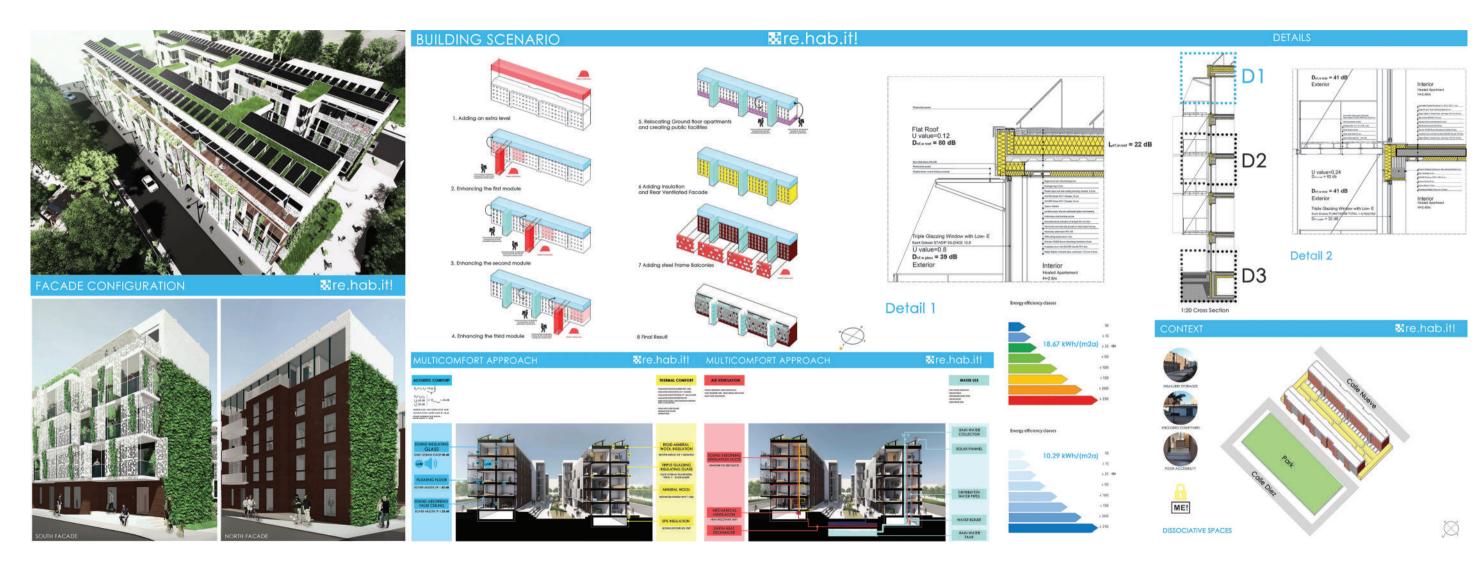
FINAGA VERESS MIHAI SZABOLCS

University of Architecture and Urbanism Ion Mincu











PRIZE RUSSIA National Stage 2017



33





EVGENIY SHABALDIN



YULIYA PETROVA

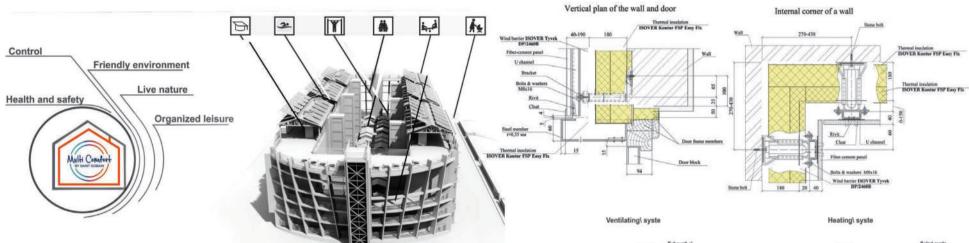
Tomsk State University of Architecture and Building



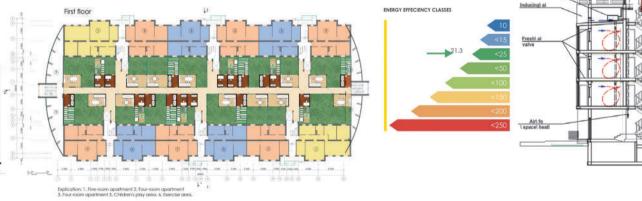








South facade



SCHEME OF VENTILATION AND HEATING

Pool\ dec



PRIZE
RUSSIA
National Stage 2017



34







ALENA KOLESNIKOVA



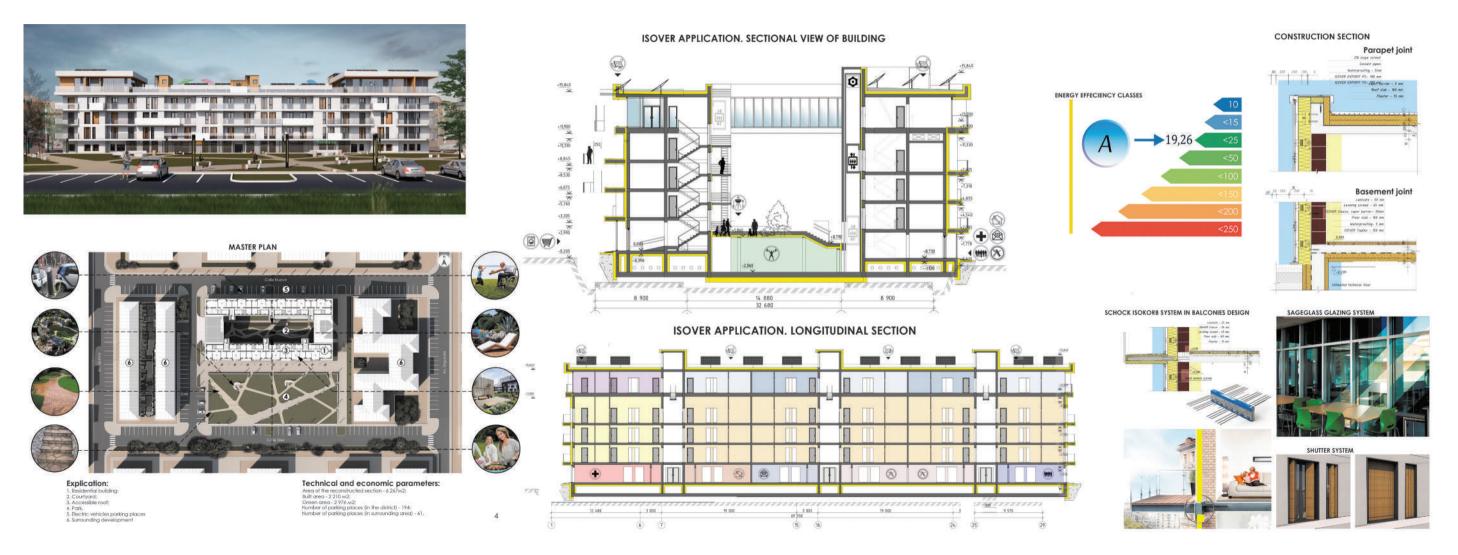
DENIS SKRIPCHENKO

Tomsk State University of Architecture and Building











PRIZE SLOVAKIA National Stage 2017



35



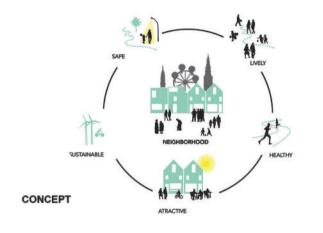
TATIANA DUNAJSKA

Slovak University of Technology in Bratislava





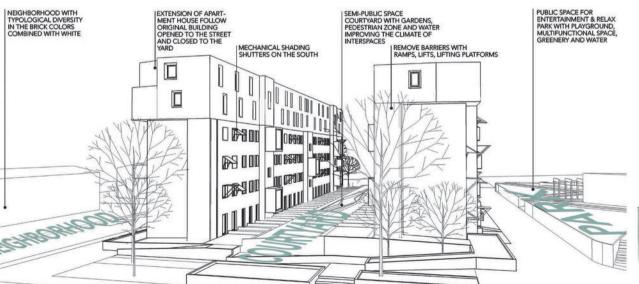


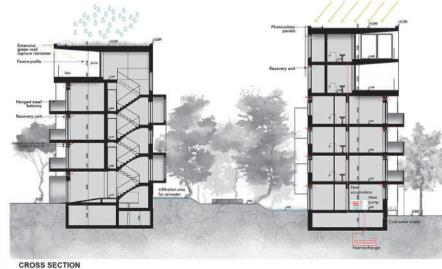


CONSTRUCTION - DETAILS

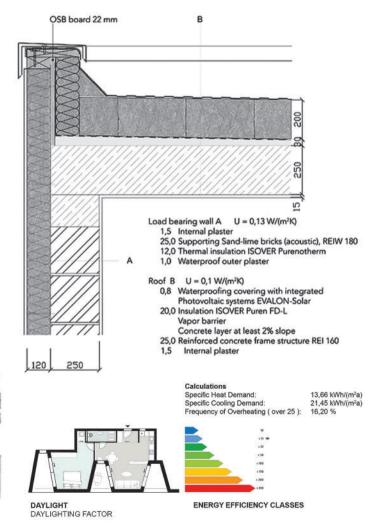


ELEVATIONS EAST AND WEST ELEVATION





OPERATION SCHEME OF THE HOUSE





PRIZE
SLOVAKIA
National Stage 2017



36





EMA ROMAN KIABOVA RUHIG

Slovak University of Technology in Bratislava

Urban Regeneration of a community in Madrid Madrid, Spain



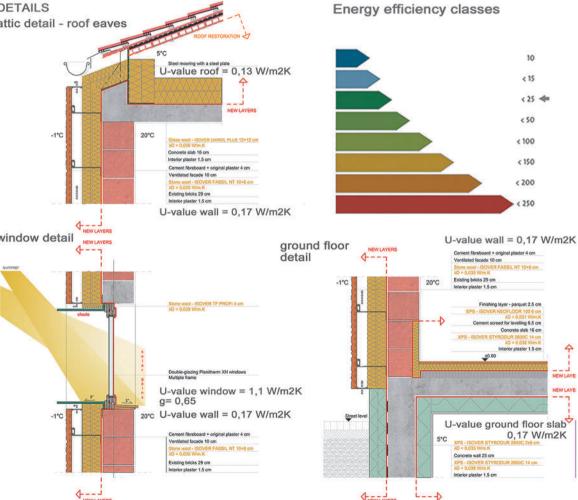
Honorable mention

MULTICOMFORT House Students Contest International stage, Madrid 2017











PRIZE
SLOVAKIA
National Stage 2017



37

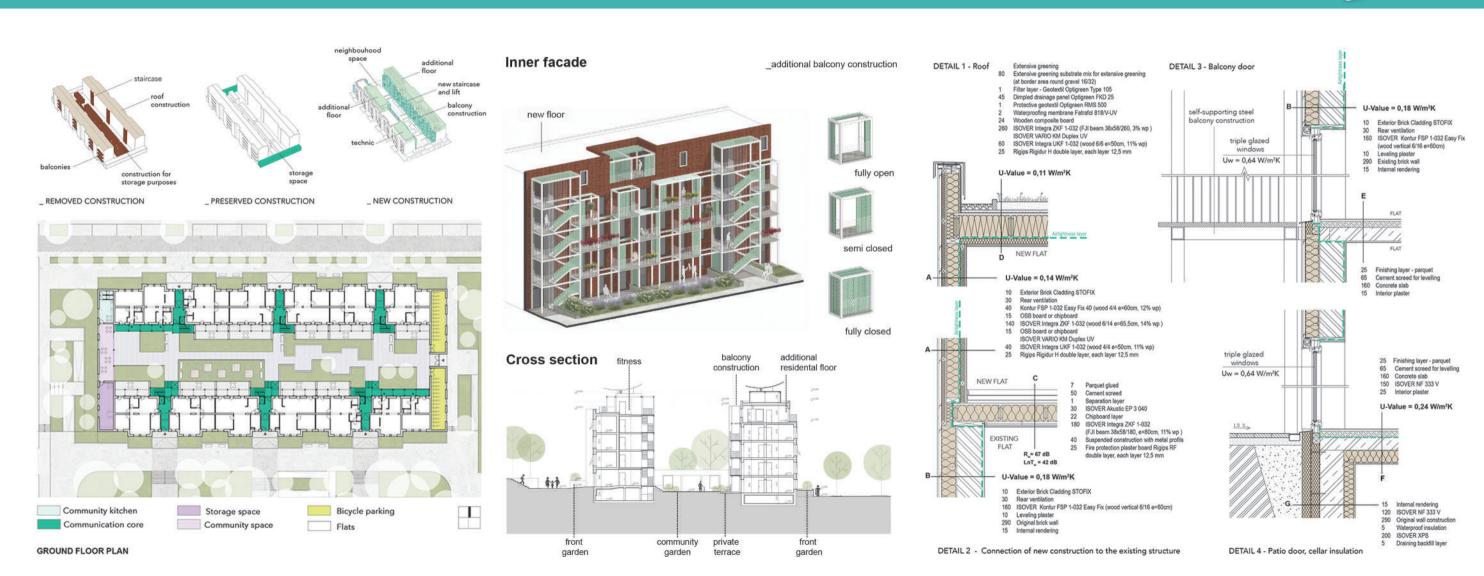
JÚLIA GILÁŇOVÁ

Slovak University of Technology in Bratislava











PRIZE
SLOVENIA
National Stage 2017



38





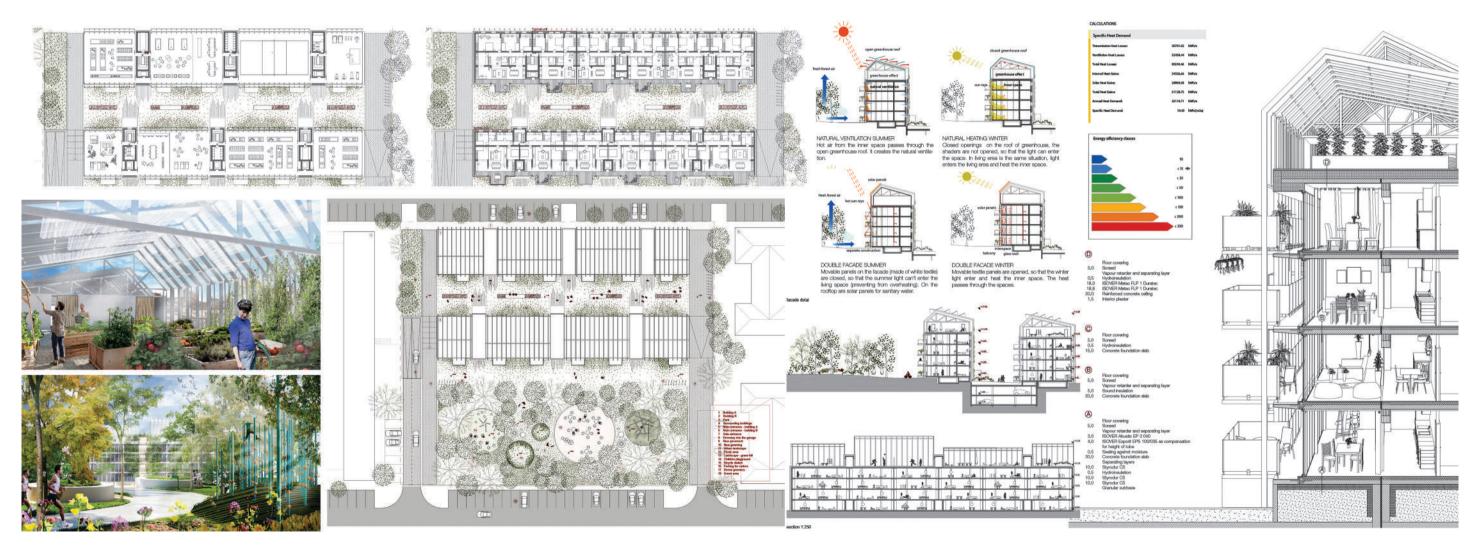
SABINA TROHA

University of Ljubljana











PRIZE
SLOVENIA
National Stage 2017



39

VANJA CVIJETIĆ

University of Ljubljana











III PRIZE SLOVENIA National Stage 2017



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MAŠA ČUK

TINA DOLENC

University of Ljubljana

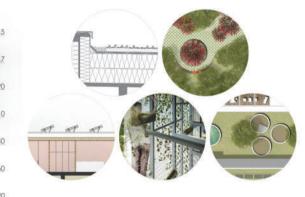




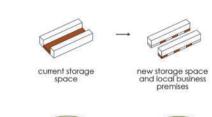




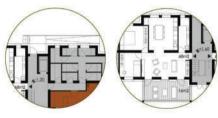




SUSTAINABILITY



CONCEPT: TRANSFORMATIONS









CROSS SECTION





PRIZE
SOUTH AFRICA
National Stage 2017



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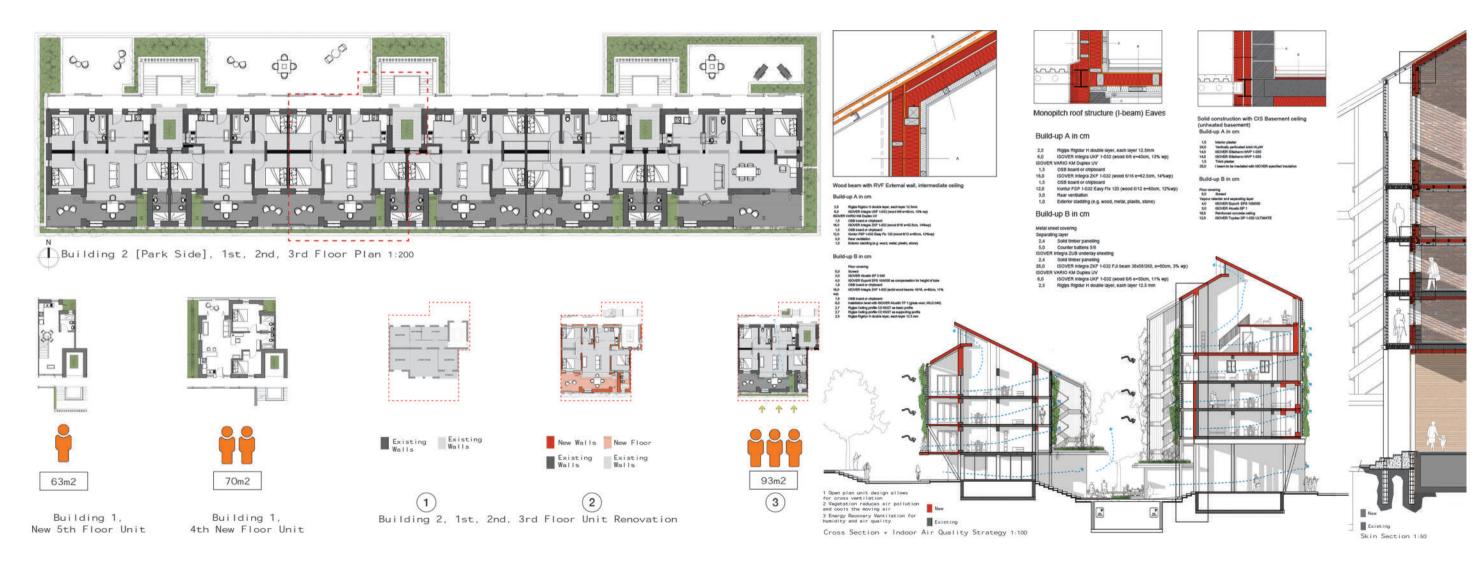
KYLE WEEDMAN

University of Johannesburg











PRIZE
SOUTH AFRICA
National Stage 2017



42





JAMES HOWARD

TARIEN LAUBSCHER

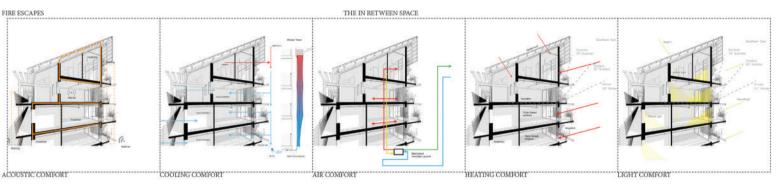
University of Johannesburg





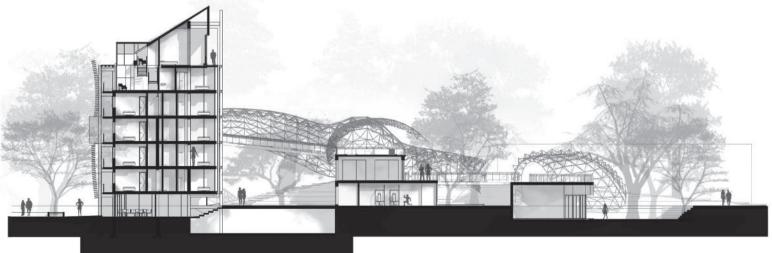


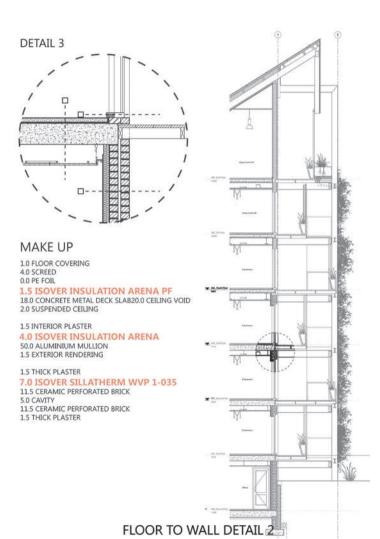






THE IN BETWEEN SPACE







PRIZE
SPAIN
National Stage 2017



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LUCIA GOMEZ



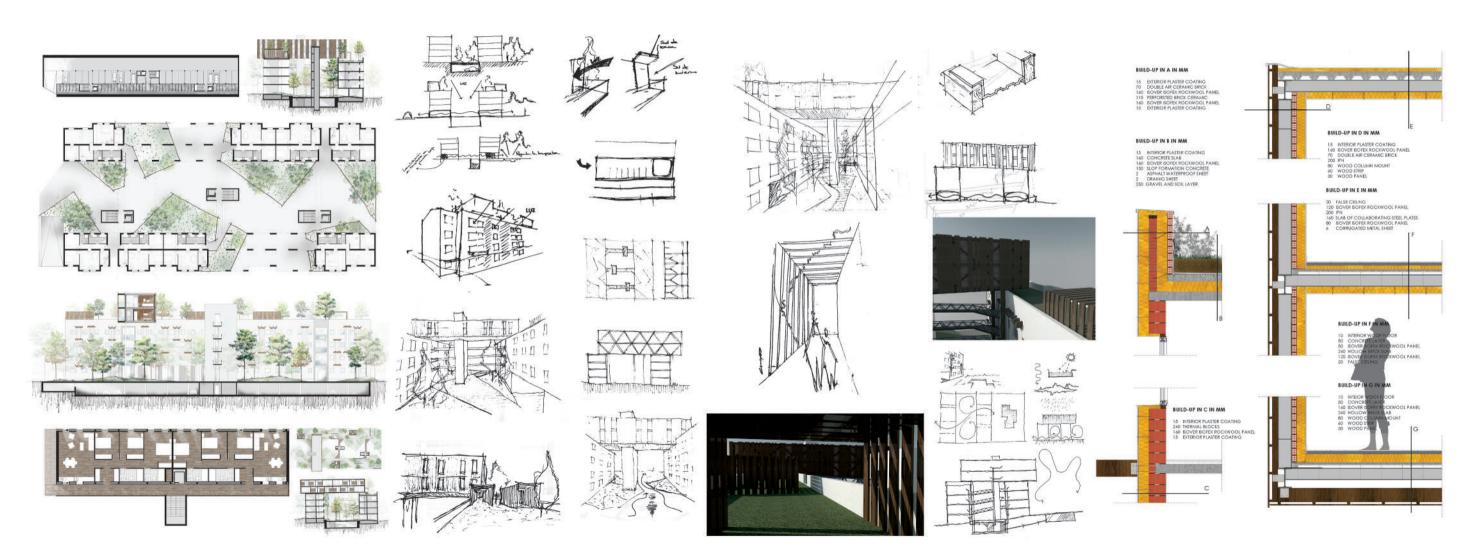
ANA LOPEZ

Universidad de Valladolid











PRIZE
SPAIN
National Stage 2017



44







MIREIA MAGRANS



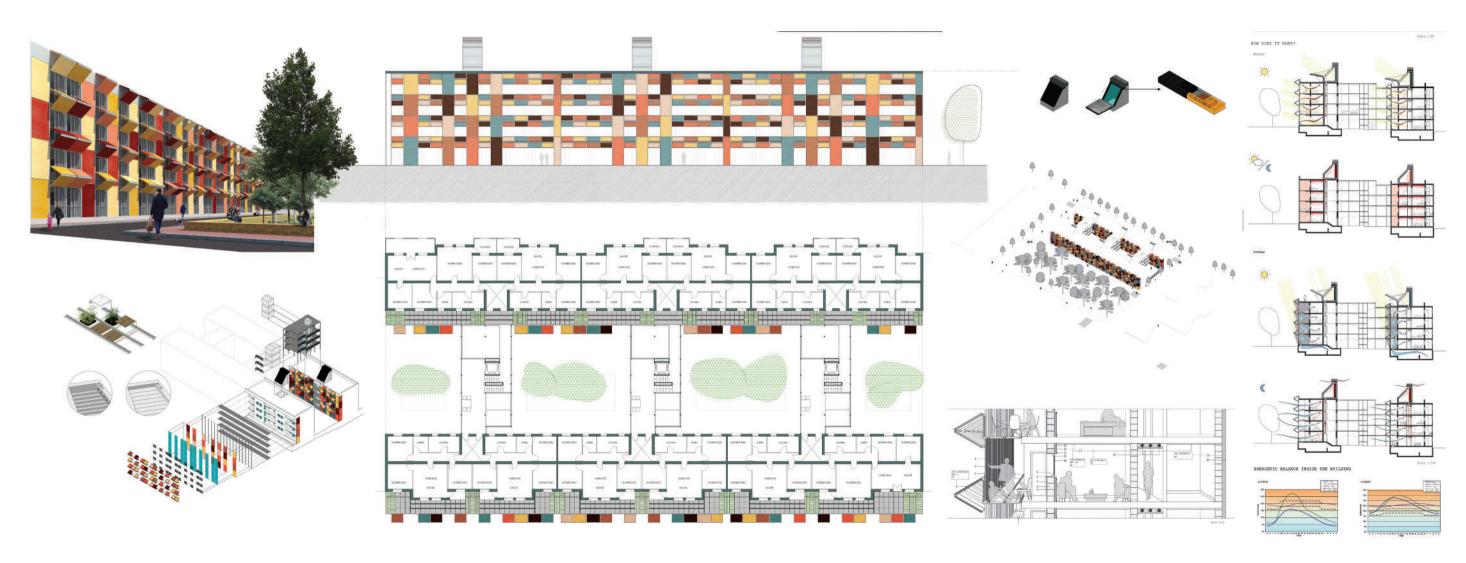
MARTA TRILLO

Barcelona School of Architecture











PRIZE
SPAIN
National Stage 2017



45







JUAN PABLO HERNÁNDEZ



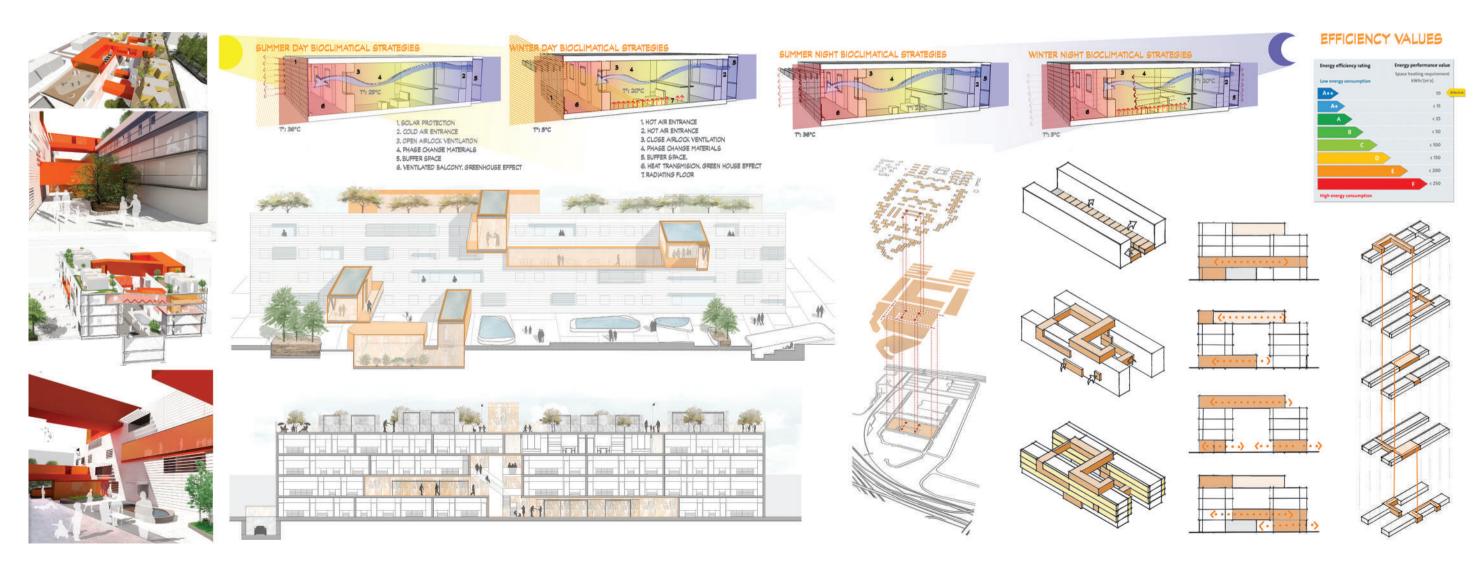
HÉCTOR PÉREZ

Architecture School of Las Palmas de Gran Canaria University











I PRIZE TURKEY National Stage 2017



46



OZAN

SEN





ZEYNEP KUHEYLAN

Istanbul Technical University











PRIZE
TURKEY
National Stage 2017



47





SIDIKA YNDER

Gazi University





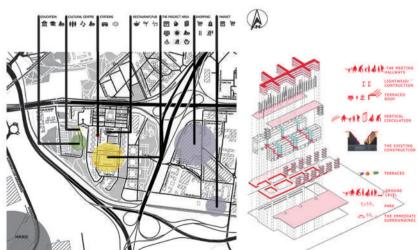




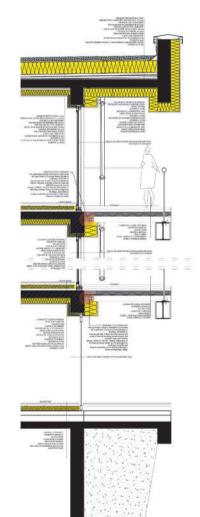














III PRIZE TURKEY National Stage 2017



48







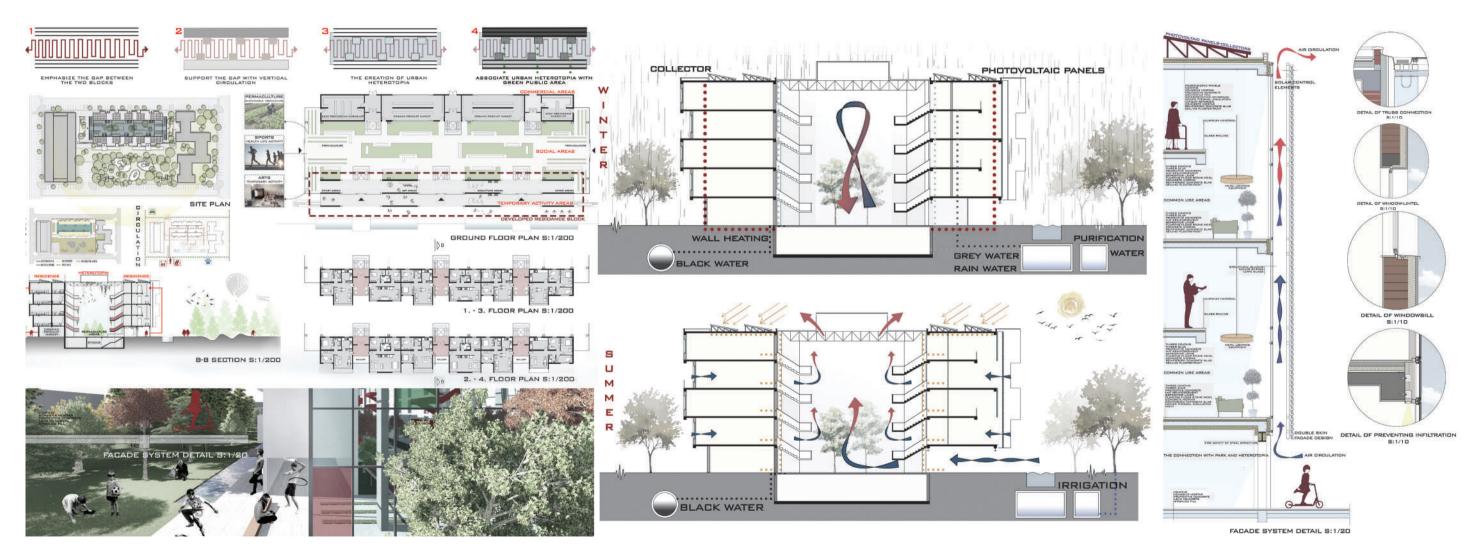
MUAMMER YAMAN

Ondokuz Mayis University











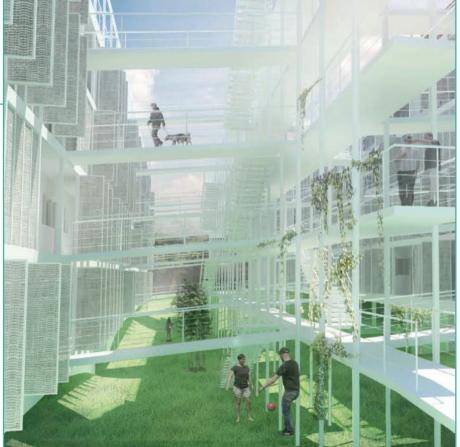
PRIZE
UK
National Stage 2017



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The University of Nottingham





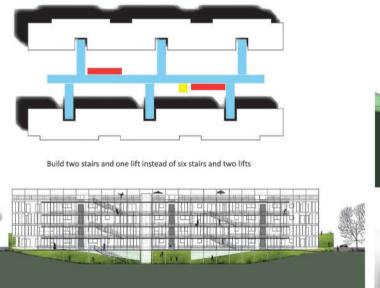




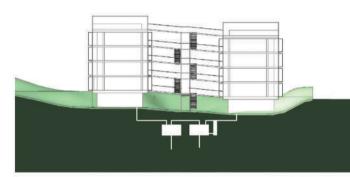




Geothermal



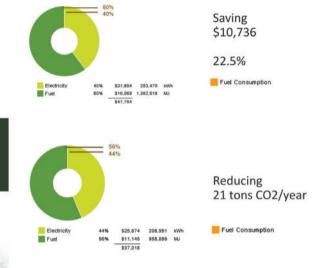




Only needn26% of the original heating source

Covering 95% heating

Create a new circulation







PRIZE
UK
National Stage 2017



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SANDRA PETKUTE

STEFAN DOOKEERAM

The University of Nottingham







REFURBISHEMENT STRATEGY



Existing situation buildings are analysed to evaluate load-bearing potential for refurbishment and extra load



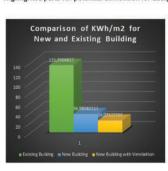
Highlighted parts for potential demolition for design optimisation

■ PV - 20% of annual

water for 8 months

Natural Ventilation

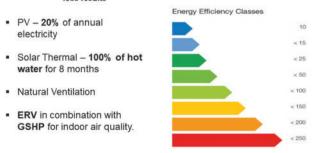
electricity



Loadbearing walls are planned to use to support new lightweight MODULAR structures

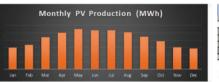


New roof of the buildings guarantee dramatically improved energy loss results



Annual Electrical Requirement & PV

- Grid Connected for back up and exporting.
- Reduction in CO2 Emission.
- 240m2 throughout the roof and
- 20% of annual electrical demand supplied via PV.



PV Schematic



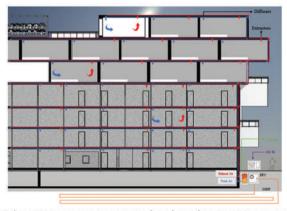
Lightweight module structures are completed in factory and assembled on

It allows to use the least amount of time for construction period (80/20% concept)

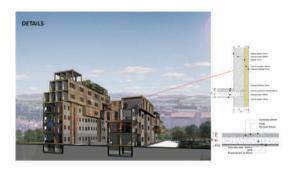
ENERGY ANALYSIS SOLAR THERMAL & GSHP



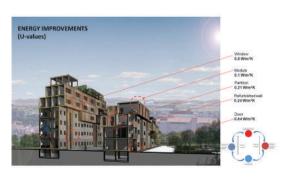
Tanks located in the basement SW and NE blocks



Exhaust air energy is captured and used to treat incoming air









PRIZE
UK
National Stage 2017



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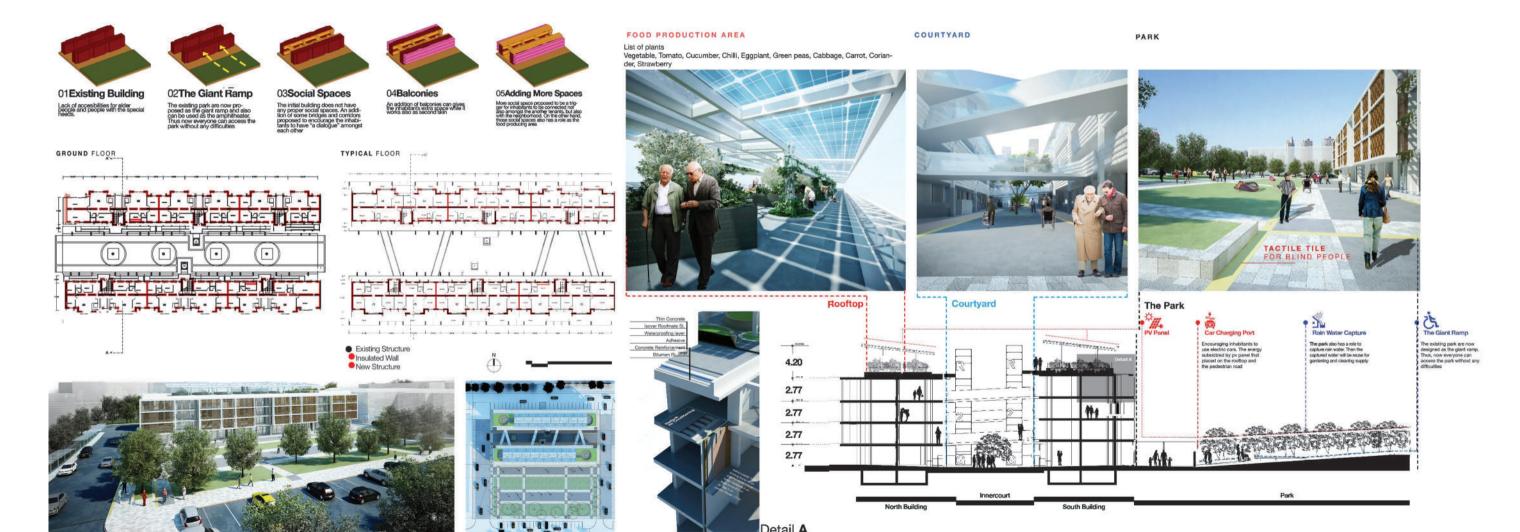


The University of Nottingham











PRIZE
UKRAINE
National Stage 2017



52



ALINA HOLOVATIUK

KNUCA

Urban Regeneration of a community in Madrid Madrid, Spain



II PRIZE

MULTI**COMFORT** House Students Contest International stage, Madrid 2017



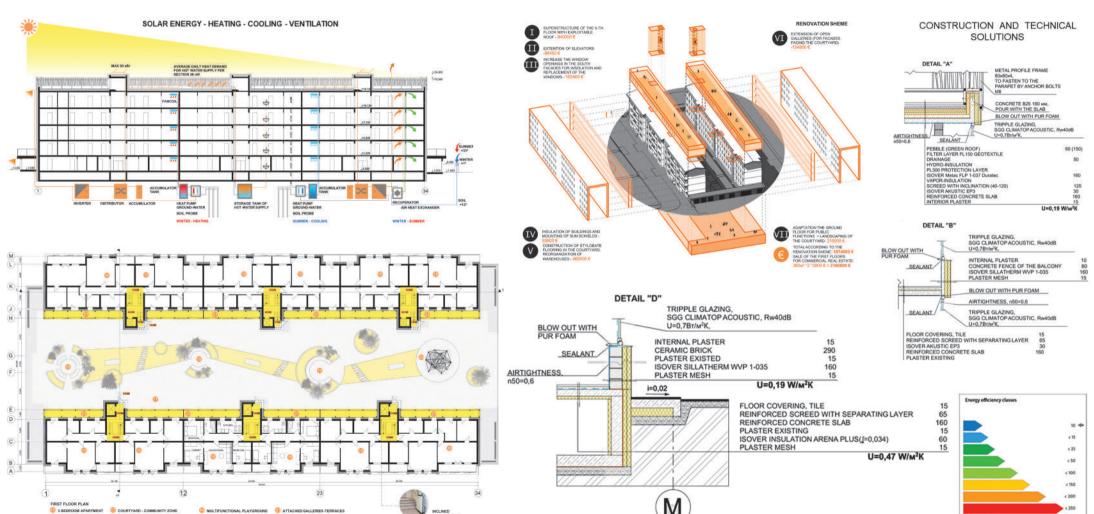








(B) 4 BEDROOM APARTMENT (B) PLAYGROUND FOR GAMES AND LEISURE (II) CLIMBING FRAME





PRIZE
UKRAINE
National Stage 2017



53







SOLOMIIA HALAYKO



VITALIIA PAVLYSHYN

Lviv Polytechnic National University

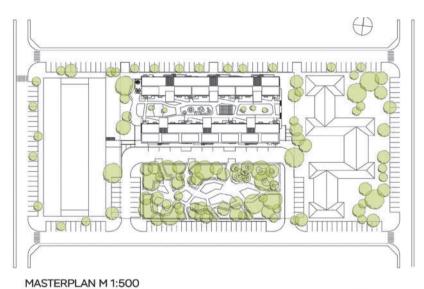


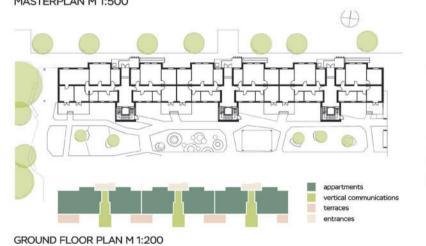








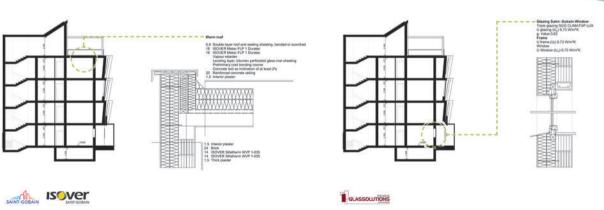








FACADE M 1:200





PRIZE
UKRAINE
National Stage 2017



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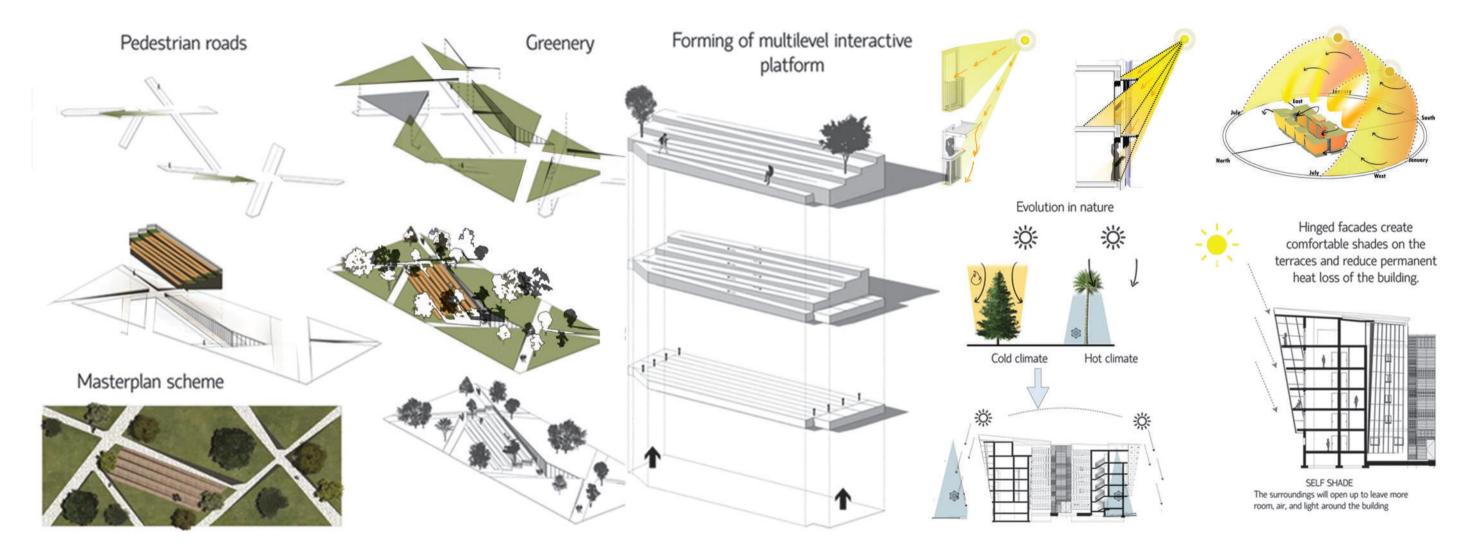
BALKO DYMITRO

NUPL









www.isover-students.com

All the relevant information since 2005: all participants and their projects, video recordings of the presentations and contest tasks, documentation, literature, photo gallery

