



# Stanford, Tečaj globalnega timskega dela AEC 2012

## *Stanford, AEC Global Teamwork Course 2012*

 ZDA, virtualno sodelovanje

 2011/2012

### TIP DELAVNICE *TYPE OF WORKSHOP*

interdisciplinarna arhitekturna delavnica/ mednarodna delavnica

### MENTORJI *MENTORS*

Super-Coach and Mentor: Renate Fruchter, Stanford University; Faculty and Industry Mentors: Architects: Mike Martin, UC Berkeley, Humberto Cavallin, University of Puerto Rico School Architecture Department, David Bendet, Perkins + Will, Architects, Robert Alvarado, Charles M Salter Assoc. Inc. Chuck Eastman, Georgia Tech, Paola Sanguinetti, Georgia Tech, Hans Verheij, NACO, Netherland, Dirk Donath, Bauhaus University, Germany, Daniel Gonzales, Design Village, Willem Kymmell, UCS Chico, Wafaa Sabil, Gensler, Jan Slyk, Warsaw University of Technology, Poland; Structural Engineers: Helmut Krawinkler, Stanford University, Ronnie Borja, Stanford University, Greg Luth, GPLA of California, Shilin Yang, GPLA of California, Tim Schrotenboer, GPLA of California, Nick Arenson, D. R. Horton, Karl Beuke, Bauhaus University, Germany, Frank Werner, Bauhaus University, Germany, Guido Morgenthal, Bauhaus University, Germany, Michael Oliva, UW Madison, Erik Kneer, Degenkolb, Nick Arenson, D.R. Horton; Construction Managers: Bob Tatum, Stanford University, Martin Fischer, Stanford University, Eduardo Miranda, Stanford University, Henry Tooriany, Microestimating Inc., Henry Tooriany, Hunt Construction, Mark Bartlett, Hunt Construction, Adhamina Rodriguez, Swinerton Builders, Daniel Gonzales, DPR, Kjell Nilver, KTH, Sweden, Tomo Cerovsek, University of Ljubljana, Julian Nahan, The Beck Group; Life Cycle Financial Management: Hans Wilhelm Alfen, Bauhaus University, Germany, Bjorn Wuendsch, Bauhaus University, Germany, Axel Seifert, LA; MEP/LEED: Adhamina Rodriguez, Swinerton, Kyle Adams, ARUP, Afaan Naqvi, ARUP, Cole Robers, ARUP, John Nelson, UW Madison

### ORGANIZATOR *ORGANISATION*

Stanford University, PBL Lab, prof.dr. Renate Fruchter

### DATUM IN KRAJ RAZSTAVE *DATE AND LOCATION OF EXHIBITION*

Spletna stran projekta in rezultatov: [www.pbl.si](http://www.pbl.si) in <http://pbl.stanford.edu/>

### GRADIVO PRIPRAVILA *MATERIALS PREPARED BY*

asist.dr. Anja Jutraž, prof.dr. Tadeja Zupančič

## TEAM ATLANTIC



Slika 1: Člani ekipe Atlantic (foto: Skupina Atlantic).

## ŠTUDENTJE STUDENTS

Architects: Kristian Fosholt, Madeleine Campos, María Carrión, Zuzanna Koltowska, Janž Omerzu, Karolina Ostrowska, Nicholas Kampmann Petitmaire; Structural Engineers: Deborah Duan, Jefferson Hang, Annemarie Herrmann, Jennifer Ju, Chris Lee, Aaron Michael McDevitt, Nick Erin Miley, Thomas Petershack, Johannes Solass, Eric Tung, Maryanne Wachter, Chen Wenhao, Curtis Wong, Courtney Wong, Yao Xiao, Leila Zheng; Construction Managers: Jonathan Isaksson, Adrew Long, Diana M Louie, Mike Miller, Ramprasad Palanisamy, Sara Sundelin, Milos Todorovic, Gustav Westphal, Dennis Wolfe; Life-Cycle Financial Managers: Maria Frank, Sabrina Lingemann, Kata Mooafak; MEP: Rob Best, Andrew Eckhart, Bedriye Kaplan; Apprentice: John Dodini

## DRUGI SODELUJOČI

Sodelujoče univerze: Stanford University; Berkeley University of California; University of Wisconsin – Madison; California State University – Chico; University of Puerto Rico; Bauhaus – Universität Weimar; TU Delft; Aalborg University; KTH, Sweden; Danmarks Tekniske Universitat; The Royal Danish Academy of Fine Arts, School of Architecture; Politechnika Warszawska; University College Cork; ETH Zurich.  
Vodje skupin/ Owners: David Borowicz, Fernando Castillo, Joanna Huey, Dimitra Ioannidou, Anja Jutraz, Sinan Mihelcic, Hossein Nasser, Gitte Sørensen, Forest Olaf Peterson, Anirudh Rao, Lauren Scammell, Michael Christopher Seaman, Maria Selk, Bjoern Wuendsch  
Žirija: 6th Swinerton Sustainability Challenge: Adhamina Rodriguez (Swinerton Builders); 3th DPR Challenge: Atul Khazode, Josh Odelson and Dan Gonzales (DPR Construction)

Slika 4: Priprave na končno predstavitev (foto: Skupina Atlantic).



## VSEBINA

Pri virtualni delavnici, z dvema kratkima srečanjima na Univerzi Stanford na začetku in ob koncu projekta, so sodelovali študentje in mentorji iz vsega sveta. Sodelovalo je 7 arhitektov, 16 statikov, 9 vodij gradbišča, 3 LCFM, 3 strojnikov in 1 pripravnikov. Hkrati je sodelovalo 14 t.i. investitorjev ter številni univerzitetni mentorji in mentorji iz industrije (Perkins+Will, NACO, Swinerton Builders, ARUP, GPLA, DPR, Bechtel, Webor idr.). Študentje so v sedmih interdisciplinarnih skupinah izdelali projekt javne skladbne, v katerem so preizkušali nove tehnološke rešitve in raziskovali inovativne koncepte učenja in zasnove fakultet.

Študentje so se soočili z dvema izzivoma: »Biomimicry« in »Product-Process-Organization (POP)«. Pri prvem izzivu so v zasnovo želeli vključiti organizem, ki predstavlja posebnost za Univerzo Wisconsin, in sicer šolsko maskoto jazbeca. Ta uporablja toploto iz zemlje pozimi, da mu je toplo in poleti, da se ohladi. Podoben princip so predlagali pri zasnovi stavbe in jo tako naslonili ob hrib, tik ob jezeru Madison. Na ta način so skušali zmanjšati stroške energije. Hkrati bi uporabili prefabricirane elemente, reciklirali les in beton ter uporabili izkopano zemljo za gradnjo ploščadi. Njihov cilj je bil tudi zmanjšati količino odpadkov.

## ABSTRACT

*In 2012, students focused on two challenges: Biomimicry and Product-Process-Organization (POP). When tackling the first challenge – biomimicry – they wanted to incorporate into it an organism that presented a special meaning for the University of Wisconsin. Badger, the school mascot, uses the heat from the earth 90 per cent of the time during the winter to keep warm, and also use it in the summer to cool down. Thus, to save energy costs, they wanted to put the building into the ground. They also applied the principle: Reduce, Re-use, Recycle. Their idea was to reduce on-site material storage through on-time delivery, pre-fabrication, and recycling of wood and concrete, as well as to re-use excavated soil for ramp construction, and implement effective utilization of machinery and formwork to reduce or eliminate waste.*