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SPVH CONFERENCE

RENEWABLE ENERGY / RENEWABLE CULTURE

International Interdisciplinary Conference on
Technology, Politics, Art, Energy and Sustainability

November 29-30, 2013

SPVH KONFERENCIJA

OBNOVLJIVA ENERGIJA /
OBNOVLJIVA KULTURA

MEDUNARODNA
INTERDISCIPLINARNA
KONFERENCIJA O
TEHNOLOGIJI, POLITICI,
UMJETNOSTI,
ENERGIJI I
ODRŽIVOSTI

29.-30. STUDENI 2013.

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DOOR
Društvo za oblikovanje održivog razvoja



Global warming is a harsh reality, and the exploitation of renewable energy sources is an urgent need. According to a recent statement by the Croatian Government in accordance with its accession to the EU, Croatia has to provide 23.6% of its energy needs from renewable sources by 2030. With this conference we want to make a contribution in this direction. In contrast, the change in energy policy is one of the most relevant public debates in the EU, and especially Germany, in recent years. It includes the entire public sphere, in which artists and political activists have a significant role. The German experience with energy transition is highly instructive, setting an example within the context of Europe, and could be of benefit to both a specialised and also a wider audience in Croatia.

This conference is a project of cultural exchange and education on energy and sustainable transition, intended as an exchange between Germany, Croatia and the region. The aim is to accelerate the process of thinking about renewable energy and sustainability at the micro and macro levels, the special target audience being cultural workers; cultural and political activists, artists, designers, architects, professionals in the creative industry, and students. As already demonstrated in several exemplary European countries, these social groups are the most capable for introducing sustainable energy issues into the central public discourse.

The main goal of the conference is to motivate the audience to take an active role and make an impact on their professional environment - to start acting as examples as they reconstruct their own work environments - or their (public) institutions - on the principles of energy efficiency. As organizers, we want the MSU to set a good example of an institution that could be and should be energetically reprogrammed - having in mind the unsustainability of the MSU building energy needs, that is, its architectural and energy profile.

The project seeks to show that the transition to renewable energy does not need to take place at the expense of the uninformed mass population, with profits only for the elite, as is often the case with the mass application of technologies. This transition can develop through democratic structures based on horizontal social networking, in a way that serves everyone. In this sense, the goal of the conference is to educate how to incorporate the principles of sustainable energy into their/our everyday lives.

A number of international and Croatian speakers will cover a spectrum of themes and issues. Presentations and discussions will focus on relevant issues related to energy consumption, the environmental impact of the food chain, alternative methods of construction including the energy "overhaul" of existing buildings and public institutions, all in the context of the new economic energy models and civil society in development. Examples of related interdisciplinary artistic practices will be featured as well. There will be plenary discussions aimed at actively engaging the audience.

We hope that all participants will walk out with one new motivational idea about sustainability, renewables and what you could do next.

Please, feel welcome and enjoy the SPVH Conference.



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INTRO ENG

Globalno zagrijavanje gruba je stvarnost, a iskorištavanje obnovljivih izvora energije prijeka je potreba. Prema nedavnoj izvaji hrvatske vlade, u skladu s primanjem Hrvatske u EU, Hrvatska će morati 2030. godine zadovoljavati 23,6% svojih energetske potreba iz obnovljivih izvora. Ovom konferencijom želimo dati prilog održivom razvoju u tome smjeru. Promjena energetske politike izdvojena je tema i jedna od najrelevantnijih javnih rasprava u zemljama Europske unije, posebno u Njemačkoj, posljednjih godina. Ova je rasprava uključila cjelokupnu javnu sferu, a umjetnici i politički aktivisti u njoj imaju važnu ulogu.

SPVH Konferencija je projekt kulturne razmjene i edukacije o energiji i održivoj tranziciji. Cilj je ubrzati proces promišljanja obnovljive energije i održivosti na mikro- i makrorazini, pri čemu su ciljana publika kulturni radnici: kulturni i politički aktivisti, umjetnici, dizajneri, arhitekti, profesionalci na području kreativne industrije i studenti. Kao što je već dokazano na primjeru nekoliko europskih zemalja, te društvene skupine najsposobnije su za uvođenje pitanja održive energije u središnji javni diskurs.

Glavni cilj konferencije je motivirati publiku da preuzme aktivnu ulogu i utječe na svoju okolinu – da bude primjer drugima u svom djelovanju i rekonstruiranju vlastite radne okoline na načelima energetske učinkovitosti, prije svega svojih (javnih) institucija. Kao organizatori, željeli bismo da Muzej suvremene umjetnosti posluži kao skroman i dobar primjer moguće energetske rekonstrukcije. Obzirom na neodrživost energetske potreba zgrade MSU-a, ovom konferencijom i radionicama koje planiramo za 2014. želimo da MSU postane primjer javne ustanove koja se može i treba energetski reprogramirati.

Cilj projekta je educirati i pokazati da se prijelaz na obnovljivu energiju ne mora odvijati na račun neinformiranog stanovništva pri čemu bi korist od njega imala samo elita, što je čest slučaj s masovnim primjenama tehnologije. Vjerujemo da se energetska tranzicija može razvijati u okviru demokratskih struktura utemeljenih na horizontalnom društvenom umrežavanju, na način koji koristi svima. U tom smislu, želimo educirati o tome kako uključiti načela održivosti u našu svakodnevnicu.

Inozemni i hrvatski govornici, u podjednakom broju, obradit će širok raspon tema i pitanja. Prezentacije i rasprave usredotočit će se na relevantna pitanja povezana s potrošnjom energije, ekološkim utjecajem na lanac ishrane, alternativnim metodama gradnje, uključujući i energetske "generalni popravak" postojećih zgrada i javnih institucija, sve u kontekstu novih ekonomičnih energetske modela i civilnog društva u razvoju. Bit će prikazani i primjeri srodnih interdisciplinarnih umjetničkih praksa. Održavat će se rasprave u skupinama i plenarne rasprave, s ciljem aktivnog sudjelovanja publike.

Nadamo se da će svi prisutni sa konferencije otići sa barem jednom novom idejom o tome što slijedeće mogu učiniti po pitanju održivosti i obnovljivosti.

Dobro došli na SPVH konferenciju!



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INTRO HR



DAY 1 | Nov. 29, 2013

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**SCHEDULE /
RASPORED**

- 10:00** Opening speech: Otvorenje:
Tihomir Milovac, MSU
Johannes Elle, GIZ
Valentin Gescher, Embassy of the Federal Republic of Germany
Dr. Vesna Bukarica, FZOEU
- 10:15** **David Smithson**:
Solar Powered Vernacular House
- 10:45** **Dr. René Mono**:
The “Energiewende”
- 11:15** coffee break | pauza
- 11:35** **Dr. Mladen Domazet & Dr. Danijela Dolenc**:
We Need to Change
- 12:05** **Adrienne Goehler**:
examples to follow!
- 12:35** lunch | ručak
- 13:30** **Nikola Bašić**:
The energy of nature - a foothold for the creation of new urban social spaces
- 14:00** **Antje Shiffers & Thomas Sprenger**:
Vorratskammer / Pantry
- 14:30** **Ljubomir Mišćević**:
The first ten realizations of passive houses in Croatia
- 15:00** coffee break | pauza
- 15:20** **Shelley Sacks**:
Inner Technologies for Ecological Citizenship
- 15:50** **Dr. Maja Božičević Vrhovčak**:
Energy & Sustainability: How Does It Fit?
- 16:20** plenary discussion
- 17:00 visiting the MSU Collection in Motion | razgled MSU

- 10:00** Summary, Day 1
- 10:15 Dr. Konrad Mertens:**
The German Photovoltaics Miracle -
History, Obstacles and Current Situation
- 10:45 Dr. Vladimir Lay:**
Croatia: The Road to Unsustainability, or,
What Shall We Eat and Drink in the Future?
- 11:05 Dr. Dražen Šimleša:**
ZMAG - Green Network of Activist Groups
- 11:25 431 art - Haike Rausch & Torsten Grosch:**
Teilchenbeschleuniger / Botanoadopt
- 11:55 Igor Franić:**
Lost in the Identity
- 12:25** lunch | ručak
- 13:20 Davor Fulanović:**
Renewable Energy Sources and Energy Efficiency at the
Technical Museum
- 13:50 Ivica Gjurić:**
Off Grid / Off Bills
- 14:10 Dr. Vesna Bukarica:**
Environmental Protection and Energy Efficiency Fund
- 14:40** coffee break | pauza
- 15:00 Deborah Hustić, Gjino Šutić, Davor Jadrijević:**
Radiona.org / Zagreb Makerspace
- 15:30 Drs. Maja & Reuben Fowkes:**
Going Wild: Ecological Pulses in Contemporary Art
- 16:00 Mirela Holy, Ph.D.:**
Political Will and Financial Instruments in Combat
with Climate Changes
- 16:30 Vedran Horvat:**
Step by Step to Prosperity? New Horizons for Ecological
Transformation...
- 17:00** plenary discussion and closing statements, ending 18:00



DAY 2 | Nov. 30, 2013

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**SCHEDULE /
RASPORED**



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NIKOLA BAŠIĆ

The energy of nature - a foothold for the creation of new urban social spaces

At a time when we no longer have time for nature, which we no longer even perceive, we have to recall the importance of cosmic reciprocity between man and nature. Life in the cities, in the artificial, anthropologically conditioned environments, moves us even further away from nature. Sunlight, day, night, stars, winds, smells and the taste of the air, the sea, the rain - all get erased by artificially created urban microclimates. Therefore, sudden communication with nature in an urban environment may pose an exciting event. Certain places in the city can be conceived as a scene for an encounter with nature. In the example we show, in a specifically designed urban area, physical and metaphorical communication with nature is created through the transformation of energy, which ... "the inarticulate speech of nature translates into a language understandable to the people".* In such a way public space - with a special character and a high level of urban individuality - was created and became the scene for new forms of urban sociability.

Nikola Bašić (1946) graduated from the Sarajevo Faculty of Architecture and Urbanism in 1972. He attended Post-diploma courses in »Architectural Structures« in Sarajevo(1978-80), and later was Assistant at the Faculty of Architecture in Sarajevo, Chair for Design of Public Buildings. Since 2005 he is professor and Head of the Architectural workshop at the Faculty of Construction and Architecture in Split, and Associate member of the Croatian Academy of Sciences and Arts, Department for Visual Arts since 2008. He has been awarded with many major and merit awards like the 1991, 1994 and 2010 Vladimir Nazor Yearly Award; 1991 Drago Galić Yearly Award for Residential Architecture; in 2000 the Great Award at the 35th Zagreb Salon; the Bernardo Bernardi Award for 2004 and 2010; the 2006 European Award for Public Urban Space / CCCB, Barcelona; the 2006 Cemex International Building Award, Monterrey, Mexico; the 2007 Mies van der Rohe Award for selected works, Barcelona. Since 1975 he has realized major public, residential, business and sacral objects in Sarajevo, Tuzla, Zadar, Zagreb, Šibenik and Murter. In 2005 he realized the Sea Organ and in 2008 Greeting to the Sun in Zadar.

*Željka Čorak



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MAJA BOŽIČEVIĆ VRHOVČAK, Ph.D.

Energy & sustainability: how does it fit?

The most often explored interface between energy and sustainability is the environmental impact of energy use. Today's energy sector is highly dependant on fossil fuels and thereby causes various negative impacts in the environment, from soil degradation to acidification to greenhouse gas emissions. At the same time, sustainability has three aspects – environmental, social and economic, all of which have to be taken into account when discussing impacts and making decisions in any sector of human activity, the energy sector being no exception. «Sustainable» in the field of energy means that the energy related activities must not degrade the environment, that energy must be available and affordable to all and that energy related investments must be feasible. Where do we stand today? Is the path to sustainable energy production and consumption clear?

Maja Božičević Vrhovčak's main professional interest is sustainable energy, i.e. energy efficiency and renewable energy. Her interests are sustainable energy technical solutions, applications and potentials, as well as public awareness of and participation in sustainable energy related activities. Her professional background is in electrical engineering - she graduated from the Faculty of Electrical Engineering and Computing at the University of Zagreb, where she also obtained a Master of Science and a doctoral diploma. She worked at the University from 1996 to 2007, as a researcher and a lecturer. She participated in the courses Renewable Energy Sources, Energy Management and Energy and Environment. She is one of DOOR's founders, and she is employed at DOOR since 2007 as executive director. She participated in and coordinated a number of national and international projects as well as in various work groups, such as the ministerial work group defining criteria for vulnerable energy consumers (2013), the work group addressing social impacts of the Energy Community (2010-2011), the national energy strategy update team (2008), the Energy Efficiency Master Plan team (2007), among others. She is married and has two children.



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VESNA BUKARICA, Ph.D.

FZOEU - Environmental Protection and Energy Efficiency Fund

The Environmental Protection and Energy Efficiency Fund is an extra-budgetary institution of the Republic of Croatia, responsible for providing financial support to projects that contribute to environmental protection, improve energy efficiency and increase the use of renewable energy sources. The activities of the Fund will be briefly presented at the conference. The challenges and opportunities related to further development and deployment of energy efficient and clean technologies will be discussed.

Vesna Bukarica, Ph.D., graduated in electrical engineering in 2001 from the University of Zagreb Faculty of Electrical Engineering and Computing (FER), received her Master of Science degree in 2006 and her Ph.D. in 2013 from the same Faculty. Her scientific research and expert work is dedicated to the development of policy instruments for promoting energy efficiency and evaluation of their impacts. She participated as a leading energy efficiency expert in policy development projects, such as the national program and national energy efficiency action plans for Croatia, Energy Sector Development Strategy of Croatia, Expert basis for preparation of the Law on Energy End-use Efficiency and related by laws and the System for Monitoring, Verification and Evaluation of energy efficiency policies for Western Balkans countries. She has published her scientific and expert work in more than 20 scientific papers, expert studies and other publications. Currently, she is employed as Head of the Energy Efficiency Sector in the Environmental Protection and Energy Efficiency Fund.



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MLADEN DOMAZET, Ph.D.
DANIJELA DOLENEC, Ph.D.

We need to change

20 years after the historic Earth Summit, benefits of development are increasingly unevenly distributed while global environmental stability is seriously jeopardised. Notwithstanding that, political leaders still consider sustainability external to their core responsibility of ensuring citizens' well-being. As a tiny replica of these global trends, Croatia is among the most highly materially developed societies in the world, but the benefits of this development are increasingly concentrated in the hands of the few. At the same time every year almost a whole other biotope of Croatian territory is required, and is effectively borrowed from future generations, in order to maintain this average level of development. Using survey data, we analyse attitudes of Croatia's citizens regarding the potential for a switch to sustainability, and we compare them to attitudes of other European citizens in order to better understand Croatia's position. We frame the country's size and historical development path as advantages that could enable political mobilisation around directing resources and capacities towards an alternative developmental project.

Mladen Domazet is a researcher with the Institute for Social Research - Zagreb, and holds a PhD in philosophy of physics. Concerned about global developments and the current path's crash with the climate, he engages with sustainability education initiatives. Mladen is a co-author of *We Need to Change: Mapping Croatia's potential for sustainable development* (HBS, 2012), a comparative analysis of education for sustainability content in 9 European countries: *Civil rights and obligations are connected to environmental issues in the curricula?* (NEPC, 2012), and is currently co-editing a volume on sustainability perspectives from Europe's south-eastern periphery (forthcoming 2014). He is a member of Group22, an ecosocialist collective dedicated to nourishing alternative models of socially just, democratic and materially sustainable societies for the 22nd century.

Danijela Dolenc works at the University of Zagreb, teaching comparative politics and social science methodology. She is a critical scholar and coordinator of an ecosocialist collective from Zagreb, Group22. She received her master's from the LSE (2005), and her doctorate in political science from the ETH Zürich (2012). Danijela has recently co-authored *We Need to Change*, a study on sustainable development in Croatia (HBS, 2012), and *Democratic Institutions and Authoritarian Rule in South-east Europe* (ECPR Press, 2013).



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431art

HAIKE RAUSCH &
TORSTEN GROSCH

Teilchenbeschleuniger / Botanoadopt

„Teilchenbeschleuniger“* is an investigative art project critically examining nuclear power. The „Teilchenbeschleuniger“ pastries, such as „Fukushima muffins“, „Harrisburgers“, „Sellafield cookies“, or „Chernobylers“ were shared in Ahaus, Gronau and Schöppingen in North Rhine-Westphalia/Germany. *„Teilchenbeschleuniger“ is the German word for particle accelerators such as the Large Hadron Collider. The word „Teilchen“ also refers to pastries. „Beschleuniger“ denotes an acceleration device.

Botanoadopt is a participatory, interdisciplinary art project between art, science and social commitment. The project defines plants as independent beings and offers them for adoption on the internet. A plant hatch is available for the anonymous local handover of plants. The humorous contextual displacement makes it possible to question one's own definition of nature, and the adoption process establishes links with the theme of responsibility.

431art - Haike Rausch and Torsten Grosch are working together since 1996 as freelance artists, having both studied „Visual Communication“. Working fields are site specific and participatory projects, artistic intervention, multimedia interdisciplinary installations, artistic research. 431art understands its work as experiencing the phenomena and proceedings of nature, work situations and everyday political/social realities. Their works were part of the international conferences, ISEA Istanbul, Ruhr 2010, and DRHA London, and are in the public collections Victoria Albert Museum, Public Library NY, Klingspor Museum Offenbach. In 2013 they started an interdisciplinary sustainable education-art-project with botanoadopt. www.431art.org



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MAJA FOWKES, Ph.D.
REUBEN FOWKES, Ph.D.

Going Wild: Ecological Pulses in Contemporary Art

Our contribution explores the twin issues of energy and conservation through the alternative perspectives offered by contemporary art. While natural conservation has traditionally been regarded as an apolitical backwater of environmentalism, the emergence of devastating new threats to natural habitats posed by the unquenchable thirst for carbon has turned nature protection into a highly emotive issue for artists, activists and whole populations. From the fundamental doubts about nuclear power revived by the Fukushima disaster to the unforeseeable consequences of the spread of the aggressive new extraction technique of fracking and the horrible environmental risks of drilling for oil in the Arctic, the engagement of contemporary artists with new environmental challenges has ranged from contributing through their work to the articulation of protest to exploring sustainable post-consumerist lifestyles and offering planetary perspectives that go beyond narrowly technocratic approaches to climate change.

Drs. Maja and Reuben Fowkes are art historians and curators whose interests in the field of art and ecology are manifest in their curated exhibitions, symposia and writings, exploring key ideas and practices around green curating, environmental art history and the sustainability of contemporary art. Their work also focuses on the theory and aesthetics of East European art from the art production of the socialist era to contemporary artistic responses to the transformations brought by globalisation. Maja has a PhD from University College London with a thesis on Central European Neo-avantgarde Art and Ecology under Socialism (2012), while Reuben's thesis at Essex University was on Public Monuments in Post-War Eastern Europe (2002). Current projects include the seminar Navigating Ecological Times at Whitechapel Gallery London, a year-long River School on the Danube bringing together artists, theorists, and environmental scientists for a floating lab on art and sustainability, and the exhibition Like a Bird, which investigates migrating metaphors and territories for avian encounter in contemporary art. They work out of Budapest and London through the Translocal Institute. www.translocal.org



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IGOR FRANIĆ

Lost in the Identity

The needs of modern man are changing and increasing on a daily basis. Also, the capabilities of the modern inhabitant of this planet are developing and displaying their strength and power. Man possesses an organic need for diversity, constantly seeking the new, the different, the bigger. Nature and the world around us are limited in resources, vulnerable in their equilibrium, slow, and sensitive to stimuli. Speed and avarice generate an untamed force which strives to attain goals without any regard for the means. What is the ratio, the balance between the needs, wishes and what this planet provides? Is the question of self-sustainability necessarily related to energy or can the answer be found in other cognitions as well? «We do not only exist in spatial and material reality, we also inhabit cultural, mental and temporal realities.» JP

Sustainability treads on thin ice between the primordial and technologically advanced, requiring the formation of an ethical principle in which «attitudes become forms». It is no longer possible to comprehend reality and to act through only a single aspect of a developmental concept; there are a multitude of alternative, heterogeneous concepts. We are in need of a wider and deeper, different way of resonating, the one that does not use form. Empathy and education.

Igor Franić was born in 1963 in Zagreb. Graduated from the Faculty of Architecture within the University of Zagreb. During his studies, he worked in Munich, and participated in the Congresses of European Students. After graduation, he lived and worked in London. He manages his own project bureau, and since 1996 he is employed in the Faculty of Architecture as an Assistant Professor. Member of the Executive Committee of the Association of Zagreb Architects during the 2001-2005 term. Listed in the Register of Licensed Architects, carrying the ordinal number 157. His project was given a special certificate at the 35th Zagreb Salon. Awarded in architectural competitions, participated in many exhibitions, both in Croatia and abroad; held a series of lectures on his work. Winner of the annual Viktor Kovačić Prize for the best architectural achievement in 2010, for his Museum of Contemporary Art in Zagreb.



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DAVOR FULANOVIĆ

Department and Information Centre - Renewable Energy Sources and Energy Efficiency at the Technical Museum in Zagreb

The Technical Museum in Zagreb has a long tradition of devising informative and educational activities offered to its public regarding various technical fields. In addition, the Museum's programme content motivates its visitors to new thinking patterns and promotes behavioural changes.

The understanding and rational use of energy resources, as well as the knowledge of its impact on the environment, contributes to the well-being of an individual but also to the prosperity of the society as a whole. The permanent exhibition Renewable Energy Sources and Energy Efficiency has been created on this principle. This new department and information centre (400 m²) introduces visitors to renewable energy technologies of biomass and biofuels, wind power plants, solar hot water systems and solar power plants, ground source heat pumps and hydro power plants. Four further display segments relate to energy efficiency in building construction, household appliances, lighting, and hybrid vehicles, showcasing 83 items in the exhibition. An additional display segment features the EdukaEnergiana library facility and the workshops and presentations area. The target audience for the Renewable Energy Sources and Energy Efficiency exhibition is the general public with an emphasis on the youth.

Davor Fulanović was born in 1952, and graduated in mechanical engineering from the University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture. From 1977 to 1990 he was employed at Rade Končar – Electrical Engineering Institute, Zagreb, working in the field of refrigeration technology. From 1990 he was employed at the Technical Museum of Zagreb, currently holding the position of museum advisor. Author and co-author of more than twenty different temporary exhibitions in Croatia, Slovenia and Hungary. Author of the Technical Museum's permanent exhibition Motive Power of Fire and co-author of the department and information centre Renewable Energy Sources and Energy Efficiency (2013). One of the initiators and co-organizers of the Croatian Festival of Science, held continuously during the last eleven years in Zagreb and numerous Croatian cities. Fulanović headed the restoration projects of several of the Technical Museum's vast exhibits; authored and published dozens of scientific and research works in Croatian scientific magazines as well as the Technical Museum's publications. A member of the international and national museum associations: CIMUSET – ICOM, SEI – ICOM, the Central European Association of Technical Museums (MUT), the Croatian National Committee of ICOM and the Croatian Museum Society.



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IVICA GJURIĆ

Off Grid - Off Bills

Today's technology enables standardized high-quality housing units to be built with the possibility of modular expansion in large series. These housing modules will, in the near future, feature integrated fittings for electricity, with heat pump heating and cooling in its walls. The facade elements will be fitted with photovoltaic modules for electricity generation. The large-scale production must lead to multiple price reductions. Sunlight, air and water from one's own well and food from one's own garden are still cost-free. An independence from water, electricity and gas distribution companies is our own fight to be won by collecting rainwater, generating electricity and applying the knowledge of passive use of solar energy.

Expensive construction, expensive lots, the high price of building permits, expensive utility services, smaller numbers of family members and the need to relocate for work, have motivated us to design and build a prototype of a foldable, an autonomous and mobile house - FA HOUSE - which does not require purchasing a building site, acquiring a planning permission or connecting to water, electricity and sewage systems.

Ivica Gjurić was born in Zagreb in 1955. He graduated from the Faculty of Architecture in Zagreb, 1980 and established the architectural studio G&B, 1991. From 1992-1994 he worked in the architectural office Pfefkorn in Langen, and the engineering office Bung in Heidelberg from 1994-1995. He lives and works in Zagreb.



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ADRIENNE GOEHLER

examples to follow!

The finiteness of our energy reserves, the impending climate change, the shrinking of biodiversity have deeply penetrated and alarmed public consciousness specially after the failed world climate summits in Copenhagen, Cancun and Rio, where “nothing but compromises” (FAZ) were reached. The question of possible individual action is more urgent than ever before.

We need visions of a sustainable life that interconnect with the sensuality, lust and passion of acting on our own. *examples to follow!* intends to encourage this and to move the cultural and aesthetic dimension of sustainability into the awareness of the senses, thus counteracting the visible erosion of the term. The exhibition aims at raising awareness for the fact that a constructive sustainability cannot make do without the arts and sciences. From them we need to learn how to think in transitions, interim solutions, models and projects.

expeditions in aesthetics and sustainability demonstrates artistic practices that contribute to the preservation of the planet, intend to influence conscious consumer behaviour and be economically efficient; it also showcases artistic positions in which the boundaries between art, activism and inventions dissolve and the experiences and methods of environmental initiatives interconnect with artistic approaches.

Adrienne Goehler is a freelance curator and writer based in Berlin. Her most recent exhibitions include *examples to follow!* Expeditions in aesthetics and sustainability, Puebla, Sao Paolo, Beijing, Mumbai, et al., 2010-2013; *wall on wall*, Westside-Gallery, photographs by Kai Wiedenhöfer, Berlin, 2013; *radius – research based art*, part I & II, 2008, 2011; *Art Goes Heiligendamm*, an art intervention on the occasion of the G8 summit, Rostock, 2007. Publications include *Fund for Aesthetics and Sustainability*, 2012; *1000 € for everyone. Liberty. Equality. Basic income.*, 2010; *Verflüssigungen (Liquifications) - wege und umwege vom sozialstaat zur kultargesellschaft*, 2006. Positions held include curator of the ‘Hauptstadt-Kulturfonds’ of Berlin (cultural capital funds) 2001 – 2006; Senator for science, research and culture in Berlin, 2001 - 2002; Head of the academy of fine arts (Hochschule für bildende Künste) Hamburg, 1989-2001.



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MIRELA HOLY, Ph.D.

Political Will and Financial Instruments in Combat with Climate Changes

Political will is crucial in combating climate changes because without political will the international community and national states can't succeed in resolving the most serious threats facing humanity. Political will is in direct relation to financial instruments, which are necessary for effective implementation of projects that can decrease the greenhouse-gas emissions. Unfortunately, financial instruments for these purposes can be misused and become instruments for the beneficitation of some unscrupulous individuals and groups. This can be seen in examples from several European countries such as the Czech Republic and Italy, where mafia elements have become involved in business with renewable energy sources. Hence it is exceedingly important that governments confront these problems strategically, according to logical planning and constructive timetable dynamics.

Mirela Holy, PhD., was born in Zagreb in 1971, where she finished elementary school and secondary school for applied arts. She enrolled in the Faculty of Philosophy in Zagreb in 1991, receiving the B.Sc. in Ethnology and Comparative Literature, in 1996. She earned a M.Sc. in Literature Science in 2000 with the thesis: Structural Mythical Aspects of the Negative Science-Fiction Utopias, and received her Ph.D. in Literature Science in 2005 with the thesis: Mythical Aspects of Ecofeminism (environmental feminism). She became involved in the 'green' agenda during her teenage years when she started thinking about waste management, energy efficiency, electricity and water conservation. She has been active in the 'green' movement for almost twenty years, beginning as a freelance activist and writer. She continued her 'green' development as an environmental NGO activist, after which she became an official of the Ministry of Environmental Protection (Head of the Cabinet of the Minister) where she worked between 2001 and 2005. From 2005 till 2008 she worked in the PR agency Maksima komunikacije, finally as CEO of the agency. In 2008 she became a member of the Croatian National Parliament, and in 2012 she was nominated as Minister of Environmental and Nature Protection. Since June 2012 she is a parliamentarian. Parallel with her environmental interests she has developed a passion for human rights issues, especially for women's rights. She has written and published three books: a novel-myth 'Apocalypse' (1992), 'Mythical aspect of ecofeminism' (2007), and 'Communication (strategies) magic' (2012).



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VEDRAN HORVAT

Step by Step to Prosperity? New Horizons for Ecological Transformation...

Since 2011, the Heinrich Böll Stiftung has been designing and coordinating an extensive regional study on ecological transformation in some Western Balkan countries (Croatia, Bosnia and Herzegovina, Montenegro, Serbia) relying on the expertise, experience and vision of a large number of experts and activists from this area. Tackling agriculture and energy as two main pillars of development in the region, findings suggest potential scenarios of development that are rooted in ecological modernization while at the same time resulting in economic benefits and more equity in respective societies. During the SPVH Conference these findings will be briefly presented and - while confronted with currently prevailing policy frameworks - will offer a new perspective on potential development routes implying fundamental changes in the energy and food supply of the region.

Vedran Horvat is acting Head of the Zagreb office of the Heinrich Böll Foundation, the German green think tank, working mainly on the issues of civic participation, ecological transformation, urban development and the Commons. As a young sociologist he received an EC scholarship to specialize in Human Rights and Democratisation, and he also worked as a journalist, reporting and web-editing in the daily political newspaper Vjesnik and Transitions Online (1998-2004). He is the author and co-editor of more than 30 books, articles and papers on civil society development, human security, green politics and democratic development. He is the German Marshall Fund Memorial Fellow and correspondent of the Brussels based Green European Journal. Since the early 2000's he was actively involved in a number of civil initiatives in a broad spectrum of green political movements.



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VLADIMIR LAY, Ph.D.

Croatia: The Road to Unsustainability, or, What Shall We Eat and Drink in the Future?

A survey of unsustainable and developmentally unproductive social practices in Croatian society from 1990 till 2013 will be presented. Elaborations will include a small catalogue of the desintegration of Croatian society in the global “new order” world context. The national interests of the development of Croatia will be interpreted through the concept of sustainable development. Some crucial “sustainable hot spots” for the further development of Croatian society will be proposed for discussion.

Vladimir Lay was born in Zagreb. He has been a sociologist - researcher for the last 40 years, a university professor for the last 15 years. His most prominent issues are: urban sociology, social ecology, sociology of development, sustainability and sustainable development, which was also the theme of his doctoral thesis: Sustainable development and education. He has authored more than 50 expert and scientific articles, and several books. His most recent book is: Lay, Vladimir & Šimleša, Dražen; (2012): „National Interests of Croatia through the Prism of the Sustainable Development Concept“, Ivo Pilar Institute for Social Sciences, Zagreb. A green activist since 1989, he co-founded and was the first president of the NGO Green Action from Zagreb. He organizes environmental education projects throughout Croatia. Currently he is supporting the new political party ORaH (Sustainable development of Croatia), founded in October 2013 in Zagreb.



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KONRAD MERTENS, Ph.D.

The German Photovoltaics Miracle - History, Obstacles and Current Situation

The development of the German Photovoltaics market sometimes is called "The German Photovoltaics Miracle". Starting from the year 2000 the installed power has been increased from 40 MW (Megawatt) to 35,000 MW in 2013. The talk describes the preconditions and reasons that made this extraordinary development possible. Moreover, problems and obstacles are discussed, the current situation is enlightened and a view on the future development is given.

Konrad Mertens, Ph.D., studied electrical engineering at RWTH Aachen and IIT, Madras 1983-1989, and received his PhD in electrical engineering at RWTH Aachen in 1996. He worked as a scientist in the industry from 1996-2000, where he was a project leader for system development, performed feasibility studies for photovoltaic fabs (fabrication facilities) and led project planning for large PV-plants. Since 2000 he is a Professor at the Muenster University of Applied Sciences in Steinfurt, Germany, where he founded and heads the Photovoltaics Test Laboratory, heads the Laboratory for Optoelectronics and Sensor Technology, lectures on the subjects of photovoltaics, sensor technology and optoelectronics, and does research in the fields of photovoltaic measuring technology and quality analysis of PV-plants. His books include Photovoltaik: Lehrbuch zu Grundlagen, Technologie und Praxis, 2013 (Photovoltaics: Fundamentals, Technology and Practice, 2014, English edition).



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LJUBOMIR MIŠČEVIĆ

The first ten realizations of passive houses in Croatia

According to the economical and financial situation in the last seven years, since the first passive house was realized in Croatia, there has been a relative boom in this field of investment and professional interest, as seen in the spring of 2012, when several more houses were realized. As it was announced at the very beginning of the European Intelligent Energy Europe (IEE) project PASS-NET in 2008, about twenty passive houses should be realized by the end of 2012. A selection of the most relevant examples of the first ten single-family passive houses including the first two residential buildings is presented, as in the on-line data base of the PASS-NET project. With thirteen realized passive houses by February 2012, there are only two tested on air-tightness (the Blower-Door method) and only one is in the process of certification in the Passive House Institute in Darmstadt (PHID). The first Blower-Door and infra-red testing of the first family passive house realized in Croatia (house B. Mihaljev, "M4" in Bestovje), for studying the results and experiences after six years of use, will be discussed.

Ljubomir Mišćević was born in 1954 in Zagreb. He graduated from the Faculty of Architecture of the University in Zagreb (FAUZ) in 1979, receiving the Dean's and Rector's awards. Since 1979 he has been working in the Institute of Architecture and as an associate at the Department of Architectural Design. Since 1991 he has been teaching Energy and Ecology Architecture, becoming an assistant professor in 1996/97. He has been teaching Design of Sustainable Architecture at the doctoral level (FAUZ) since 2007, High-tech Architecture since 2008, and since 2012 High-tech Architecture doctoral studies in Ljubljana, where he has been an associate professor since 2003, professor since 2010. Since 2000 he has been President of the Committee for Energy Efficient and Sustainable Architecture and Committee for Accessibility in Architecture in the Croatian Chamber of Architects (HKA), president of the Croatian section in the International Solar Energy Society (ISES) and of the Croatian Centre for renewable energy sources (CERES) since 2010, as well as head of several EU projects for Croatia; PASS-NET (promoting passive houses as a standard of building in the EU) and IDES-EDU, INTENSE (all supported by Intelligent Energy Europe - IEE).



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RENÉ MONO, Ph.D.

The “Energiewende”

The “transition to renewable energies” is not just a technical challenge or an economic mission. It is also about how to organize change in a rapidly changing world. The goal is precisely described: One hundred percent renewable, but the path towards this goal remains unclear. It is about pioneering, no doubt, but being a pioneer means, of course, more than only setting an ambitious and long-yielding goal. It won't be enough to study the traditional question of how much the energy generation costs or how it can be engineered.

These questions, of course, are fundamentally important, but the *Energiewende* encompasses a little bit more than techno-economical issues. Its success depends on issues regarding public acceptance, collaboration, and political participation. The *Energiewende* is a fundamental transformation of society, and implies a real cultural shift and a new paradigm for modeling our collective life. Understanding the *Energiewende* means, especially on an international level, understanding a new model of market, a new model of capitalism, a new model of society.

René Mono is managing director of *100 prozent erneuerbar stiftung* (100 percent renewable foundation), a think tank specialized on questions related to a decentralized energy transition. Amongst other activities he has published on issues like public participation, community energy investment and decentral renewable energy supply. René holds a PhD in political communications. Before joining the foundation he worked in a Public Affairs Consultancy in Berlin and Brussels as specialist for the energy and mobility sector.

100 prozent erneuerbar stiftung advocates for a switch to decentralised renewable energy and acts as an intermediary between science, business, politics and society. As a non-profit think tank, the foundation analyses decentralized energy usage in practice, and adds science based knowledge where and when necessary. The scope of projects embraces: environmental acceptability and participation/mediation, geographical distribution of wind and solar energy, regional energy concepts (virtual power plants and user preferences for regionally generated green energy) and the political and legal framework for the switch to renewables.



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DAVOR JADRIJEVIĆ
GJINO ŠUTIĆ
DEBORAH HUSTIĆ

Radiona.org / Zagreb Makerspace

A brief history about the l'MM_ Media lab in the context of DIY, DIWO and open source cultures will be presented, expanding on the development of the newly founded Radiona.org as an aggregator of diversities in the fields of art, science and technology. Education in all forms (formal and informal) is the most powerful tool for development of a local scene, intersecting and networking internationally with organizations, hackerspaces, galleries and museums. Realized projects reflecting this as well as the future of the lab will be discussed. Highlights include remembering Nikola Tesla, renewable energies, a Peltier experiment, with a special look at distributed renewable energy; microbial fuel cells & semi-organic solar cells.

Radiona / Makerspace - Association for Development of 'do-it-yourself' Culture has been founded as an outcome and extension of the l'MM_ Media lab core team in order to enhance the visibility of makers' open source culture and self-sustainable production, as well as with the aim of connecting all possible fields of art, science and technology. The objective is to create new realities of networked and collaborative intermedia and new media practices in line with world trends such as DIY (do-it-yourself) and DIWO (do-it-with-others). Radiona.org focuses its activities on education, research processes, artistic projects, curatorial practices, international and domestic inter-sector collaborations, renewable systems and social awareness related issues.

<http://radiona.org/> <http://immmedialab.wordpress.com/>

Davor Jadrijević is an electrical engineer and Master of Physics, interested in exotic technology and involved in various DIY projects with the aim of repurposing devices from the field of standard technologies so as to make them suitable, by using imagination, for new and different purposes. For the past few years, he has been working on Tesla's wireless energy transfer, which he has performed or presented several times in front of local and international audiences.

Gjino Šutić is a researcher, innovator, and CEO of the UR Institute. He conducts research within several fields of science (biology, electronics, medicine, engineering, neurology, nanotechnology, bioelectronics). Using a DIY approach to biotechnology (biohacking) he designs and manufactures the necessary instruments and materials.

Deborah Hustić is the founder of Body Pixel Studio and Textil{e}tronics, co-founder and vice president of Radiona.org, as well as leader of l'MM_ Media lab in Zagreb. She is into wearable technology, hands-on electronics, open source hardware and sound art as an artist, blogger and curator.



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SHELLEY SACKS

Inner Technologies for Ecological Citizenship

Freedom and responsibility, the importance of 'internal mobilization' and work that emphasizes 'inner technologies' as much as outer solutions, are inherent to the field of social sculpture and its framing ideas. The University of the Trees and practices like Earth Forum that are part of this mobile, alternative university for exploring and enhancing ecological citizenship, highlight these processes.

Taking forward Joseph Beuys' redefinition of 'capital' and the insight of early sustainability thinker, E.M. Schumacher, who stressed the relationship between a sustainable future and the culture of the inner human being, the University of the Trees encourages a constellation of practices and 'solutions' nourished by the questions: What is knowledge? How do we know? And how do we need to learn and engage to shape a humane and viable future? This will include a perspective on the 're-schooling of the senses' and developing 'new organs of perception' as well as reference to connective modes of knowing that are integral to helping us become 'agents of change'.

Shelley Sacks works internationally in connective practices and social sculpture, exploring the relationship between imagination and transformation, the individual and community, and rethinking responsibility as an ability-to-respond. She regards her long-term collaborative projects such as Exchange Values, University of the Trees and Earth Forum as 'instruments of consciousness' that foreground the link between inner work and outer action. Her practice includes more than forty actions, site works, installations and participatory social sculpture projects; several essays and books, involvement in grassroots cultural and political organisations; facilitating social sculpture processes in South Africa in the 70s and 80s; and collaborating with Joseph Beuys for more than a decade in the Free International University. Shelley writes, lectures internationally, performs and develops projects, and is part of a social sculpture collective exploring ways to scale up the social sculpture practices and how we become 'agents of change'. She leads a Masters and Doctoral programme in Social Sculpture at Oxford Brookes University where she is Professor of Social Sculpture and Director of the Social Sculpture Research Unit.



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ANTJE SCHIFFERS
THOMAS SPRENGER

Vorratskammer / Pantry

The Vorratskammer (larder or pantry in English) was filled in order to cater the ÜberLebenskunst Festival at the Haus der Kulturen der Welt in Berlin with food, drinks and related themes. myvillages.org - Kathrin Böhm, Wapke Feenstra, Antje Schiffers with Thomas Sprenger - filled it over a year long period, 5000 guests were expected.

The gathering started in summer 2010, and the larder filled up along questions, themes, collaborations and discoveries we encountered. Innovative production was as interesting as standard, we worked with small and large amounts, looked at combined harvesters and crafts, new technologies and rose scented lemonade. Bartering was involved, DIY, proper market price purchase and common goods.

For the festival in August 2011 everything entered one large physical pantry. We had a permanent outdoor summer kitchen, festive banquets, the Fifteen Minutes of Rare Goods, a BBQ and water and beer from the tap. The Vorratskammer Garden House became a meeting point for many of the 80 co-producers and the general public. On the last evening of the Festival the pantry was empty again.

Antje Schiffers was a flower illustrator in Mexico, a traveling painter in Italy, Russia, Kazakhstan, Kirgistan and Uzbekistan, company artist in the tire industry and ambassador and correspondent for the Gallery for Contemporary Art in Leipzig. She participated in barter trades with farmers and with corporate consultants. In 2003 she together with Kathrin Böhm (UK/DE) and Wapke Feenstra (NL) founded the international artist initiative myvillages.org that focuses on the rural space – as a living and working space and as a place for cultural production.

Thomas Sprenger has worked as an industrial engineer and was Antje's companion in her projects since 1999 until he quit his job to fully engage in the family business in 2004. For the Vorratskammer-project he joined myvillages.org.



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DRAŽEN ŠIMLEŠA, Ph.D.

ZMAG - Green Network of Activist Groups

Founded in 2001, ZMAG is a non-governmental organisation focused on permaculture education, environmental protection and raising sustainability awareness. ZMAG gathers organic gardeners and food producers, sustainable and natural building practitioners, permaculture designers and teachers, researchers of fair and egalitarian social and organisational models, environmental activists and those interested in sustainable living. These activists believe that by applying, promoting and teaching permaculture ethics they can help create a foundation for sustainable communities and society. Their most important project is their educational centre - Recycled Estate - in Vukomerec, a village 20 km south of Zagreb. ZMAG is a Knowledge Centre for sustainable living and permaculture development and is also the National Transition Hub for Croatia within the Transition Network.

Dražen Šimleša, Ph.D., was born in 1976. He holds a B.A., an M.A. and a Ph.D. in Sociology from the Faculty of Humanities and Social Sciences, University of Zagreb. An academic and research expert with 13 years of professional experience in the fields of globalization and sustainable development, he is currently a Research Associate at the Ivo Pilar Institute of Social Sciences in Zagreb. His research interest is mainly in the development of socially fair and environmentally sustainable concepts, on local and global levels. He has published several scientific papers and six books in the fields of globalization, resource depletion, renewable energy resources, sustainable development, and permaculture, and with Dr. Vladimir Lay he has co-authored „National Interests of Croatia through the Prism of the Sustainable Development Concept”.

Dr. Šimleša's projects and research related to sustainable development include: Concept of sustainable development of Croatia (2004-2008) and Sustainable development of Croatia (2008-2012). He is currently head of the Centre for Research on Integral Sustainability and Sustainable Development. He also works as project manager on the EU project MYPLACE (Memories, Youth, Political Legacy and Civil Engagement) at Institute, and is a founding member of ZMAG.



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DAVID SMITHSON

Solar Powered Vernacular House

It all started with a small size art work, a collage-sketch for a solar powered electric chair that I made in 1992, expressing doubts about the power manipulation of technological progress. The scientific knowledge about comprehensive technological and socio-political solutions for society has been accumulating already for a long time. Even so, far from enough has been done to improve basic living conditions both locally and globally, not to mention acknowledging and then minimizing climate change. Imagining a better world where renewable energy sources like wind and solar are relieving some of the strain being imposed on nature - and therefore back upon ourselves - one has to ask the question whether human beings are capable of behaving sensibly.

With the SPVH Conference - Renewable Energy / Renewable Culture - we initiate a three-year project to stimulate, motivate and unify efforts about renewables. In 2014 a series of workshops will take place where the primary areas of influence presented at this conference will be expanded on. The project culminates in 2015 with the installation of a Solar Powered Vernacular House on the roof of the MSU. This exhibition pavilion is based on a traditional wooden Croatian house and synthesizes the old indigenous knowledge with new technological innovations. Intended as a think tank venue, this pavilion will serve as a meeting place and focal point for sustainable renewable energy strategies in the years to come, thereby further embedding the interaction of art and science in contemporary culture. With this project, I hope to raise awareness that the unavoidable transition to renewable energies will not turn into the next wave of elitists exploiting the masses, but will be developed in a way to serve the needs of the many.

David Smithson studied architecture at Rensselaer Polytechnic Institute, Troy, New York and sculpture at the University of Wyoming, Laramie. He has lived in Europe since 1984. His oeuvre is based on a dialogue between European and American cultural traditions - mixing minimal art and pop art with a European conceptual and critical approach. During the last two decades he has focused on the convergence of art, technology and society, specifically addressing sustainability issues and the transition to renewable energies through his interactive solar-powered sculptural installations. Recent solo exhibitions/projects include SPVH, Künstlerdorf Schöppingen; Snoring in the USA, NGBK Berlin; Shsshopp! Psst!, MSU - Zagreb; Burning Boots, Galerie Löhrl - Mönchengladbach; The F-Song, Croxhapox - Gent, Bach Backwards, Museo Pecci - Prato. His latest group exhibitions include examples to follow! (ZNE!) - Puebla/Sao Paolo/Beijing/Mumbai; Labor Berlin 12 - Drifting, Haus der Kulturen der Welt; Mediamatic - Amsterdam; White Box/Annex - New York; Museum Ludwig - Cologne; Centre Pompidou - Paris.



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IMPRESSUM

SPVH CONFERENCE RENEWABLE ENERGY / RENEWABLE CULTURE

initiates a 3 year project converging art and science at the
MSU Museum of Contemporary Art Zagreb:

SOLAR POWERED VERNACULAR HOUSE 2013-2015

Project author: David Smithson; curated by: Tihomir Milovac;
organized by: MSU, Zagreb, DOOR, Zagreb, Otvoreni likovni pogon, Zagreb.

SPVH KONFERENCIJA OBNOVLJIVA ENERGIJA / OBNOVLJIVA KULTURA

Ovom konferencijom Muzej suvremene umjetnosti Zagreb započinje
trogodišnji projekt koji povezuje umjetnost i znanost

PUČKA KUĆA NA SOLARNI POGON 2013.-2015.

Autor projekta: David Smithson; kustos projekta: Tihomir Milovac;
organizacija: MSU, Zagreb, DOOR, Zagreb, Otvoreni likovni pogon, Zagreb.

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