



**INTERNATIONAL EXPERT GROUP MEETING ON
SUSTAINABLE HOUSING**

Nairobi, 15 – 16 December 2011

ORGANISATION AND PARTICIPANT PROFILES



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Organisation and participant profiles, and presentation titles and abstracts

UN-HABITAT International Expert Group Meeting on Sustainable Housing - Nairobi, Kenya 15 – 16 December 2011

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 <p>CENTER FOR CLIMATE CHANGE AND SUSTAINABLE ENERGY POLICY</p> <p>CENTRAL EUROPEAN UNIVERSITY</p>	<p>Center for Climate Change and Sustainable Energy Policy (3CSEP), Central European University</p> <p>3CSEP contributes to the governance of international decision-making processes related to climate change and sustainable energy, including the role that buildings play and the development of energy efficiency technologies and policies. Some of the key projects involve participating with the following organizations:</p> <ul style="list-style-type: none"> • Intergovernmental Panel on Climate Change (IPCC) • Global Energy Assessment (GEA) • Global Building Performance Network (GBPN) • United Nations Scientific Expert Group on Climate Change (UN SEG) • United Nations expert group on energy-efficiency “Bringing Energy Efficiency to Scale” • United Nations Sustainable Building and Climate Initiative (UNEP SBCI) • Research projects under the EU’s Intelligent Energy - Europe and Framework Programs, as well as European Parliament <p><i>Organisation type:</i> <i>Research institution</i></p> <p><i>Geographic focus:</i> <i>Regional focus on Central Eastern Europe and Global</i></p> <p><i>Thematic focus</i> <i>Building retrofits, building materials and technologies, energy efficiency</i></p> <p><i>area(s):</i> <i>in buildings, lighting and appliances, policy approaches</i></p> <p><i>Key departments and</i> <i>Diana Urge-Vorsatz, Director, Director of 3CSEP</i> <i>people working on</i> <i>sustainable buildings:</i></p>
	<p>Diana Urge-Vorsatz</p> <p><i>Director of 3CSEP</i></p>
	<p>Presentation: TBC</p> <p>TBC</p>



CRAterre-ENSAG, International Centre for Earth Construction

Since its establishment in 1979, the main areas of work and achievements are:

Social and low-cost housing (since 1979):

- Mayotte Social Housing Programme (1981-2011), over 25,000 CEB buildings
- Domaine de la terre social housing project in Villefontaine, France (1983-1985)

Capacity building covering one or all the CRAterre thematic area at national scale (since 1988):

- Support to Nigeria NCMM to develop its Center for Earth Construction (1988-1995)
- Support to Burkina Faso Locomat National Agency (1990-2000), Housing ministry and UNDP
- Support to RDC PARSE national school construction programme financed by the World Bank (2011)

Environmental impact reduction (since 1990):

- Mayahi rural housing project in Niger as component of a FAO programme to fight desertification and poverty (1994-1997)

Qualification and income generating activities (since 1997):

- High Return Housing Project in South Africa supported by the Dutch Foundation Van der Leij Habitat (1997-2001), Department of Housing 2002 National Award as the most innovative housing project

Cultural Heritage and local development (since 1988):

- Africa 2009 programme on Cultural Heritage of Subsaharian African countries with National Authorities, UNESCO and ICCROM (1999-2009)

Post-disaster reconstruction and Disaster Risk Reduction (since 1995)

- Contribution to the Cultural Landscape of Bam, Iran (2004-2007)
- Towards community based natural disaster risk reduction in Ardakan, Iran (2009-)
- Haiti reconstruction projects (2010-)
- Other reconstruction projects after disaster and disaster risk management projects (Pakistan, El Salvador, etc.)

Standards and professional building codes (since 1990):

- CEB standards (1999) and professionals code of practices for earthen architecture (under progress)

University embedment (since 1984):

- Post graduate course on earthen architecture at the National School of Architecture, Grenoble France (1984-)
- Makerere University, Curricula development and pedagogical tools, GTZ and European Union project (1996-1999)
- UNESCO Chair "Earthen Architecture: Building Cultures and Sustainable Development" (1998-)

Researches on the thematic areas:

- Solar Decathlon eco-housing competition, Madrid 2010
- One of the 100 French selected "Excellence Research Laboratory": LABEX AE&CC (2011-)
- Grands Ateliers (Great Workshop) facilities in Villefontaine where full

	<p>scale model can be built and tested and where innovative pedagogy can be implemented with joint trainings and researches with Engineering and Architecture (2002-) with an international Festival dedicated to the new technological development on earth construction organized every year</p> <p>Publications and exhibitions (since 1979):</p> <ul style="list-style-type: none"> - Key publications (building with earth, earth primer, traité de construction en terre, CEB toolkit, "batir en terre", etc.) <p>Contribution to two majors exhibitions ("Down by earth" and "batir en terre" with the CCI and Cité de la Villette in Paris)</p> <p><i>Organisation type:</i> Research and education institution with a strong field expertise and application component</p> <p><i>Geographic focus:</i> Global</p> <p><i>Thematic focus area(s):</i> Materials – Cultural Heritage – Habitat: Building Cultures, Earthen Architecture, Building materials and technologies, Housing and building design, Sustainable housing and building construction, Knowledge and technology transfer, Project methodology, Access to decent housing to disadvantaged communities and low-income groups, Community empowerment, Support to artisans, entrepreneurs and SMes, Production of building material, Analysis and evaluation and correction of raw material, Laboratory procurement and installation, Standard and professional building codes, Disaster Risk management and reconstruction, Vulnerability assessment, Building retrofitting, Evaluation, Publication, Training, education and Research.</p> <p><i>Key departments and people working on sustainable buildings:</i> Eng. Dr. Romain Anger, Materials Department Arch. Thierry Joffroy, Cultural Heritage Department Arch. Philippe Garnier, Habitat Department Prof. (Arch.) H. Guillaud, Head of the AE&CC research unit Prof. (Arch.) P. Doat, Head of the research laboratory</p>
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Arch. Philippe GARNIER

Head of the Habitat Programme

Philippe Garnier, 48 years, is graduated from the National School of Architecture of Grenoble. He is and working for the International Centre for Earth Construction (CRAterre-ENSAG) for 20 years, where he is in charge of the Habitat Research programme and teaches "Human Settlements" within the post-graduate course "Earthen Architecture: building cultures and sustainable development". He is in charge of several projects and has developed a specific expertise on seismic issues after Bam Earthquake and other post-disaster operations (Morocco, Indonesia, Peru, Haiti, etc.). He has also directed the publication "Aléas naturels, catastrophes et développement local" (Natural Hazards, disasters and local development).



Presentation: The experience and approach of CRAterre towards housing sustainability (1979-2011)

For over 30 years, CRAterre has been working in the field of earthen architecture and local building materials with the vision of contributing to meet the Habitat needs of the majority based on the idea that each territories and communities have resources that can be use. Through projects, restoring dignity and confidence often lead communities to reinterpret its own building cultures and identify potential solutions from them that may need to be upgraded for the benefit of all (e.g. better opportunities and access to housing, qualification and income generating activities) and towards communities sustainability and

resilience.

Organisation and participant profiles, and presentation titles and abstracts

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Chalmers University of Technology

30 years experiences in building climatology, energy, cookstoves, kitchens (research and education); 20 years Swahili towns (sustainable planning). Ongoing projects/building up knowledge: Design for Extremes, Homes for Tomorrow, East African Urban Academy in cooperation with regional universities, developing sustainable design education (including crafts), Reality Studio, marketplace project in Kisumu (MISTRA urban Futures), CUMULUS/DESIS (social innovation)

Organisation type: Education and research
Geographic focus: Global, regional- East Africa
Thematic focus area(s): Home, housing, stoves, kitchens, building climatology, marketplaces, tools: systems design, fieldstudies, prototyping, trans disciplinary, extremes, capacity building- east African urban academy, trippel helix, culture
Key departments and people working on sustainable buildings: Maria Nyström, professor, Depart. Architecture, chalmers and School of Design and Crafts, Univ of Göteborg
Chalmers/ Architecture: Krystyna Pietrzyk, Barbara Rubino, Björn Malbert, Ingerlise Syversen,
Chalmers/Water Environment Technology: Greg Morrison, Building Physics: Carl Eric Hagentoft
Nina Ryd, Director Built Environment

Prof. Maria Nyström

Professor Chalmers University of Technology/ Design for Sustainable Development and Professor School of Design and Crafts (HDK) in charge of design research (art based design)
Maria Nyström is a docent and professor at Chalmers University of Technology and at the School of Design and Crafts, University of Gothenburg. She is in charge for research in the subject design and design for sustainable development. She received her PhD in Building Science 1994 focusing on building climatology stove, kitchen and building design. Through her carrier she has been working as an industrial designer mainly in South East Asia and Eastern Africa. She is a lead in establishing the East African Urban Academy now running Reality studio and marketplaces. She was a Cullinan professor at Rice University in Houston, 2001.

Presentation: Designing Development - Future Homes for Future Cities

Contemporary challenges to deal with the built environment calls for new *modes* of knowledge production, management and dissemination. Trans- disciplinary and boundary spanning collaboration between academia, industry, and society is encouraged as means to favor mutual learning and development. How can a design approach take a central role? The *daily life* is in focus. We need to understand the relations between micro and macro level; from a cook stove to deforestation and climate change. The East African Urban Academy is a timely academy based on *knowledge clusters* such as food chain, living in extreme environments and new participatory planning tools. Focus is on design for social innovation. The “Hab lab” is a test-bed for prototyping. New networks are coming up as MISTRA Urban Futures a centre acting locally and globally.



EcoSur Network and Grupo Sofonias

Grupo Sofonias grew out of earthquake reconstruction in Guatemala 1976, and EcoSur began in 1991 and formalized as a network in 1996 in Ecuador.

Some 600 micro enterprises created in Latin America, Africa and Asia (mainly micro concrete tiles with capacity to produce some 30,000 roofs yearly), thousands of houses and hundreds of schools built in Nicaragua, Ecuador, Honduras, Guatemala, Salvador, Cuba, Namibia. Post disaster reconstruction in several countries, actually in Haiti. Investigations in different materials and technologies, specifically micro concrete tiles, groundbreaking research in ferrocement panels, lime-pozolana cement and meta-kaolin cement additions.

Organisation type: EcoSur network is a flexible network of loosely connected entities managed by Grupo Sofonias (NGO)

Geographic focus: Global, but our main strength is Latin America

Thematic focus area(s): EcoMaterials (Economy and Ecology), investigation, production, teaching, design, construction, capacity building, micro-enterprise creation

Emphasis on decentralization, small units.

Housing design and project management

Disaster reconstruction (incl durable quick shelters)

Key departments and people working on sustainable buildings: Kurt Rhyner (Arch. PhD, Prof. Swiss) Coordinator

Fernando Martirena (Eng. Dr Sc. Prof. Cuban) Coordinator

Paul Moreno (Chemist, PhD. Ecuadorian) Communications

Marcos Macanche, (Architect, Nicaraguan)

Bernardo Rhyner, (Architect, Canadian)

work team of 15 engineers, architects, builders



Kurt Rhyner (Architect, PhD, Professor)

Coordinator of the network

Director of the managing organization (Grupo Sofonias)

Born 1948 in Switzerland, architectural studies and practice in Switzerland; since 1976 active in development work in southern hemisphere, mainly Latin America.

PhD in technical sciences, professor, investigator and consultant for EcoTechnologies, disaster mitigation and reconstruction, small scale production of EcoMaterials

Formerly resident project director in Guatemala, Nicaragua, Namibia.

Developing Grupo Sofonias from a small work team into a mini-multinational organization with active bases in Nicaragua, Ecuador, Haiti and Switzerland, and affiliated organizations in Namibia and Cuba

Building up EcoSouth Network for an Ecological and Economical Habitat, into a dynamic information exchange with a south-south focus and impact.

Presentation: EcoSur, The network for the economical and ecological habitat

EcoSur is an network of loosely connected organizations, universities, firms and individuals dedicated to solving the housing deficit. It connects science with practice. The “open source” bi-lingual website www.ecosur.org unites thousands of users and is the reference point for EcoMaterials. The strategy of networking is the base of an international South-South movement of twenty years that contributes to resolving problems of the Habitat. Its cybernetic center is in

Ecuador.

Over two decades of patient investment in time and energy has resulted in the development, characterization and dissemination of ecological and economical construction materials, which can be locally-produced, are affordable and can resist natural disasters. Networking among the entities through connecting science with practice and post-disaster reconstruction has facilitated development of human resources and a new generation now carries the torch. Currently young professionals from Nicaragua, Ecuador and Cuba, both male and female, engineers, architects, masons and administrators are participating in post-earthquake reconstruction in Haiti, thereby further cultivating the work of the past two decades in technology transfer in a direction toward sustainability.



International Institute for Environment and Development

As an independent international research organisation, we are specialists in linking local to global. In Africa, Asia, the Caribbean, Central and South America, the Middle East and the Pacific, we work with some of the world's most vulnerable people to ensure they have a say in the policy arenas that most closely affect them — from village councils to international conventions.

Through close collaboration with partners at the grassroots, we make our research and advocacy relevant to their needs and alive to their realities.

Partnerships are key to the way we work at IIED: they keep our approach fresh and dynamic round the world. By forging alliances with individuals and organisations ranging from urban slum dwellers to global institutions, IIED ensures that national and international policy reflects the agendas of marginalised people.

IIED was launched in 1971 by renowned economist and policy advisor Barbara Ward, making it one of the very first organisations to link environment with development.

The institute has played key roles in the Stockholm Conference of 1972, the Brundtland Commission of 1987, the 1992 Earth Summit and the 2002 World Summit on Sustainable Development, and is now helping to shape the global debate on climate change.

Organisation type: Research institution
Geographic focus: Africa, Latin America, and South and South East Asia
Thematic focus: Vulnerable groups, Advocacy
area(s):
Key departments and people working on sustainable buildings: The department at IIED that deals with Housing issues is the Human Settlements Group. Key members of staff are Gordon McGranahan, David Satterthwaite, Diana Mitlin and Martin Mulenga.



Dr. Martin Mulenga

Senior Researcher, Human Settlements Group

Martin Mulenga (Ph.D) is a senior researcher at the International Institute for Environment and Development (IIED), a research and policy organization based in London. Dr. Mulenga primarily works on urban poverty and environmental issues in low-income settlements in Africa, Latin America and Asia. He has a PhD in Civil and Environmental Engineering from the University of Southampton in the UK and a Post Graduate Diploma in Architecture from the University of KwaZulu-Natal in South Africa.

Presentation: Constraints and Opportunities of Sustainable Housing in Low-income Urban Settings

This presentation will look at the challenges individual households and communities face in the delivery of sustainable housing in low-income urban settings. These challenges include affordability, legislation, lack of information, and people's attitudes towards sustainable housing. The presentation will also highlight the potential of sustainable housing in low-income urban settings and will make recommendations to key stakeholders on how best to address the barriers which can be a stumbling block.



International Network for Bamboo and Rattan (INBAR)

INBAR, the world's only intergovernmental organization with a focused mandate on the sustainable development of bamboo and rattan, was set up in 1997. Since 2001, INBAR has had a dedicated global Bamboo Housing Programme. To date, key INBAR achievements in the field of bamboo housing and construction include: Development of 2 ISO standards for bamboo structural design and mechanical and properties testing; Facilitating the development of a national bamboo building code in Peru; development of safer double skinned bamboo scaffolding in HK; training of over 250 technicians and architects from 12 member countries in construction with bamboo; construction of demonstration bamboo housing in Asia, Africa and Latin America; and Development of engineered bamboo lamination technology in China, which is now being transferred to Ethiopia & Nepal.

Organisation type: Intergovernmental

Geographic focus: Global

Thematic focus area(s): Bamboo building materials and technologies; Bamboo housing design and building codes; Training and capacity building on bamboo construction and value chain development; Bamboo construction technology transfer; Networking and advocacy for bamboo housing and construction

Key departments and people working on sustainable buildings: INBAR Global Bamboo Housing Programme: Mr. Oliver Frith, Programme Coordinator; Ms. Liu Kewei, Engineer and Programme Officer Mr. Nripal Adhikary, Architect and Programme Research Associate. INBAR Latin American Regional Office: Mr. Alvaro Cabrera, Regional Coordinator; Lorena Nolte, Peru Project Coordinator

Mr. Oliver Frith, MSc (Oxon), MA (Cantab)

Programme Coordinator, Global Bamboo Housing Programme

Mr. Frith has an MSc in Environmental Change and Management from Oxford University and an MA in Natural Sciences from Cambridge. He has worked at INBAR's Beijing Headquarters for four and half years, managing bamboo-based livelihood development projects in Asia and East Africa. As the coordinator for INBAR's Global Bamboo Housing Programme, Mr. Frith's current main interests and responsibilities are supporting the development of pro-poor, bamboo construction value chains in INBAR member countries and coordinating work on standardization and building codes for bamboo.

Presentation: Bamboo for Sustainable Housing: Experiences of the International Network for Bamboo and Rattan

Although, due to its highly renewable nature, lightweight, pliability, steel-like strength, and relative low-cost, bamboo has been successfully used in construction for millennia, the promotion of modern materials, such as cement and steel, has resulted in a shift away from bamboo. In recent years, interest in building with bamboo has revived, but many challenges remain to mainstreaming its use as a sustainable building material. These include addressing knowledge gaps on how to employ bamboo in construction projects, overcoming policy barriers that prevent legally building with bamboo, and changing perceptions of bamboo from that of a traditional, temporary construction material into that of a modern, renewable and long-lasting one. This presentation will highlight the existing challenges faced for mainstreaming bamboo-based construction, using examples from the INBAR's own global experiences in implementing housing projects and related research. From the presentation, participants will gain a better

understanding of how bamboo technologies can be practically incorporated into making more resilient, sustainable homes and communities.

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Norwegian Refugee Council (NRC)

The Norwegian Refugee Council (NRC) was established in 1946 under the name Aid to Europe, to assist refugees in Europe after World War II. Today NRC is an independent, humanitarian non-governmental organisation which provides assistance, protection and durable solutions to refugees and internally displaced persons worldwide.

Organisation type: NGO

Geographic focus: Global -
NRC has projects in around 20 countries in Africa, Asia, America, the Middle East and Europe as well as offices in Oslo, Brussels and Geneva.

Thematic focus area(s): NRC is build on **3 pillars:**
1. Programme Activities: providing humanitarian assistance to refugees, internally displaced persons (IDPs) and returnees. Activities are concentrated on five core activities:

- Building of homes and schools (Shelter)
- WASH
- Distribution of food and non-food relief items
- Information, counseling and legal assistance (ICLA)
- Camp management
- Education

2. Advocacy: NRC is an independent and courageous spokesperson for refugee and IDP rights in the countries where we work and in international forums. The Internal Displacement Monitoring Centre (IDMC) in Geneva monitors and provides up-to date information on all situations of conflict-induced internal displacement worldwide. The IDMC also conducts trainings on the protection of internally displaced persons.

3. Emergency Standby Forces: NRC has some 850 men and women in its Emergency Standby Forces. On 72 hours notice they can deploy anywhere in the world to support the UN and other international organisations with humanitarian aid and emergency relief operations.

Within its Core Activity SHELTER, NRC focuses on adequate building materials, design and technologies as well as green building design and materials. All this is applied to the entire range of temporary, transitional and durable buildings. NRC shelter programs are supporting durable solutions with long term perspective (from emergency phase onwards). Thereby the sustainability of the entire context is important and actively supported by other NRC Core Activities, especially Housing, Land and Property issues including security of tenure through NRC ICLA.

Key departments and people working on sustainable buildings: Technical Support Section within the International Program Department at the Head Office in Oslo.
Shelter Advisers: Oyvind Nordlie, Martin Suvatne and Jake Zarins (contact: firstname.lastname@nrc.no)



Mr. Martin Suvatne

Adviser Shelter in the Technical Support Section, NRC HO Oslo

- Diploma Engineer degree in Architecture and Urban Design Technical University Karlsruhe (TH), Germany. - Studies at the National University Singapore (NUS) and master thesis at the Indian Institute of Technology (IIT).
- Architect for MV in Beijing, ASTOC in Cologne and BB22 in Frankfurt.
- Lecturer at the Christian University Indonesia (UKI) and Technical University Karlsruhe (TH).
- Junior Professional at GTZ HQ (DRR and contingency planning)
- Technical Adviser for GTZ at the Ministry of Home Affairs Indonesia (reconstruction, planning, governance and DRR)
- Shelter Adviser NRC

Presentation: Defining, Measuring and Verifying Sustainability in Humanitarian Shelter

- NRC at a glance
- NRC shelter - relevant policy aspects and extracts from handbooks and guidelines
- Key NRC shelter projects defining milestones in defining sustainability for NRC
- NRC Core Activity Database Indicators for all project reporting on and measuring off sustainability criteria
- NRC's initiative of adjusting international recognized environmental assessment methods for buildings to humanitarian shelter needs - towards environmental accountability
- NRC's wish to develop international recognized indicators for environmental impact.

**Centre for Development and Emergency Practice (CENDEP),
Oxford Brookes University**

CENDEP has been active in areas of chronic poverty and acute emergency since 1985, with past work undertaken in particular by Professor Ian Davis (shelter after disaster) and Professor Nabeel Hamdi (housing). CENDEP’s activities today include human rights (Richard Carver), conflict in urban spaces (Dr Brigitte Piquard) and urban risk/shelter after disaster (Professor David Sanderson).

Recent activity in shelter after disaster (research, conferences and teaching) since 2008 has involved training with NGOs including CARE and Save the Children, conferences with Oxfam, CARE and IFRC, and research in Gujarat (post disaster permanent housing) and Haiti (post disaster temporary housing in urban settlements).

- Organisation type:* Education and research
- Geographic focus:* Global
- Thematic focus* Shelter after disaster (interim/ transitional and permanent area(s):
- Key departments and people working on sustainable buildings:* David Sanderson, Director, CENDEP (shelter after disaster)
Emeritus Professor Nabeel Hamdi (housing)
Emeritus Professor Ian Davis (shelter after disaster)
Dr Brigitte Piquard (conflict and urban space)



Professor David Sanderson


Director, CENDEP (shelter after disaster)

David has 20 years experience in development and emergency practice in over 30 countries. He has held senior posts in the NGO and academic sectors, leading teams and programmes, developing strategies and undertaking training, research and consultancy. David has experience of all stages of project management and has carried out work for a variety of agencies.

He is currently Director of a University Centre that focuses on development and emergencies where he leads a taught Masters degree, undertakes consultancy and develops initiatives. David is a member of several NGO advisory boards, a Visiting Professor at Université Paris-Est Créteil, France and has published articles and papers concerning urban livelihoods and disaster risk reduction.

Presentation: Shelter after disaster: process, focus and challenges

The presentation will outline lessons from CENDEP’s recent work in shelter after disaster, namely research, training and conferences. The presentation will focus on two underpinning aspects/challenges of shelter after disaster: the need for better processes, and the need to focus on people as the centre of engagement, rather than on the housing ‘product’. The presentation will share current issues/challenges relating to post disaster recovery in urban areas concerning shelter delivery.

	<p>Royal Institution of Chartered Surveyors</p> <p>RICS is over a hundred years old and has established itself as the premier organization for land and built environment professionals. It has special experience and strengths in real estate, housing and environmental economics; construction/ infrastructure procurement and project management; geospatial and land information systems.</p> <p><i>Organisation type:</i> Professional institution</p> <p><i>Geographic focus:</i> World. Over 120,000 members worldwide.</p> <p><i>Thematic focus area(s):</i> Land, property and construction economics and management; training and research; urban development standards and regulatory regimes; disaster prevention, risk assessment and reconstruction; sustainability indicators</p> <p><i>Key departments and people working on sustainable buildings:</i> John Tracey-White, RICS Sustainability Adviser; Ursula Hertenberger; Saad S. Yahya</p>
	<p>Saad Yahya</p>
	<p>Presentation: TBC</p> <p>TBC</p>



Shack/Slum Dwellers International

SDI was founded in 1996. It now operates in 388 cities and has assisted urban poor federations to construct over 58,000 houses and secure over 1,000ha of land. SDI has a tremendous capacity to facilitate knowledge exchange and networking through tried and tested community-to-community exchange programs. It also has the ability to develop tools that are relevant, affordable, and sustainable in urban poor communities.

Organisation type: Secretariat for an international network of slum dweller federations

Geographic focus: Africa, Asia, Latin America

Thematic focus area(s): Capacity building, slum upgrading, community mobilization, incremental upgrading, community-driven development

Key departments and people working on sustainable buildings: The Secretariat and coordinators of SDI are all heavily involved in supporting the housing projects of member Federations. To be directed to the appropriate person please contact the Director of the Secretariat, Joel Bolnick joel@sdinet.org

Miss Skye Dobson

Research and Documentation Officer

Skye Dobson is a Research and Documentation Officer with Shack/Slum Dwellers International. She is currently based in Kampala, Uganda. Skye is an honorary board member at African Children's Haven and former Director of the Wemby Fund. She holds an MA in International Affairs from the New School University, New York.

Pauline Wangui

TBC

Presentation: Towards systemic change: A community-driven sustainable housing agenda

It is quite clear there exists systemic failure when it comes to the provision of affordable housing – green, sustainable, or otherwise. SDI works to address institutionalized exclusion of the urban poor by supporting federations of slum dwellers to collectively overcome the seemingly intractable barriers to affordable housing and forge a new path, one routed in authentic community participation, genuine partnership with local authorities, and the capacity for protracted and dynamic mass action.

Federation savings mobilize not only financial resources, but the trust and organizational capacity essential for community managed shelter solutions; federation labor reduces unit costs and clearly demonstrates community commitment; the ability to federate serves as collateral for collectively secured external finance, while Federation enumerations collect information essential for efficiently targeting subsidies and determining city-wide slum upgrading processes. These strategies provide federations of the urban poor the authority to demand and generate a more responsive housing agenda.

Over 1 million federation members are presently instituting such systemic changes in 388 cities, united by daily savings and a shared commitment to community-driven development. To date they have constructed over 58,000 houses and are setting precedents for sustainable and scalable housing solutions in the Global South.

Skat – Swiss Resource Centre and Consultancies for Development

30 years of experience. Wide and thorough expertise in sustainable housing, reconstruction, settlement development; M&E, indicators' development, training, advisory services, contacts

Organisation type: Private consultancy company / Foundation

Geographic focus: Global

Thematic focus area(s): Sustainable reconstruction; housing; building materials and technologies; resettlement planning and implementation; slum upgrading; urban development; Advisory services; M&E; planning & implementation; Training & capacity building

Key departments and people working on sustainable buildings: Claudia Schneider: Sustainable Reconstruction and Settlement Development Specialist

Daniel Schwitler: Senior Architect

Daniel Wyss: Sustainable Building and Settlement Development Specialist

**Mrs. Claudia Schneider**

Sustainable Reconstruction and Settlement Development Specialist; M&E

Claudia Schneider's professional background is in sustainable building, settlement and institutional development. She holds a MSc in Urban Development Planning from the Development Planning Unit (DPU), University College London, UK. In addition, she is an Architect (Dipl.-Ing. TU) from the Technical University Munich, Germany.

She has 15 years of working experience as a project manager, team leader and consultant in the areas of urban and settlement planning, housing, sustainable building and disaster risk reduction, energy efficiency and environment, decentralisation and governance, poverty reduction, participatory processes, institutional and community development in Kenya, Indonesia, Ukraine, Kosovo, Sri Lanka, India, Nepal, Afghanistan, Brazil, Egypt, Poland, Czech Republic, Slovakia, Lithuania, Portugal, Germany and Austria.

She has worked with UN agencies (UNDP, UNEP, UN-Habitat, UNV), the bilateral development cooperation (GTZ, SDC), NGOs (IFRC, Swiss Caritas, SRC, Practical Action), and internationally in the private sector. Her strengths are in planning, developing concepts, strategic planning, backstopping and quality control, project appraisals, project management and implementation, capacity building, policy development, drafting of toolkits, manuals and guidelines, as well as impact monitoring and evaluation. She organised and facilitated a number of workshops and study tours.

**Presentation: BASIN Network – a Retrospective and Potentials for the Future**

basin - Building Advisory Service and Information Network. The Building Advisory Service and Information Network, basin, was set up in 1988 to provide information and advice on appropriate building technology and to create links to

know-how resources for all those in need of relevant information: government officers, financiers, builders and developers, architects and planners and building material producers - anybody in need of up-to-date information and advice on the manufacture, performance and availability of sustainable building technology from around the world.

There were nine active members aiming to provide clients with access to building technology and advice. These advisory services were provided via the half-yearly newsletter "basinNews", internet-based information services such as databases, international seminars and conferences and Q&A services. The network partners also met periodically to discuss and presented new issues and trends in sustainable building technology. basin was a leading international network for knowledge sharing on building construction and habitat issues.

The presentation focuses on the lessons-learnt of the past, and presents potentials for the future.



University of Birmingham - School of Geography, Earth and Environmental Sciences

The School of Geography, Earth and Environmental Sciences has a renowned history for international excellence in research and teaching. Geology at Birmingham dates back to 1881 and Geography began here in 1924. We are proud of our long history and build on our successes through our research and teaching to address the challenges of the 21st Century such as climate change, oil exploration, renewable energy and resilience.

Organisation type: Academic

Geographic focus: Global

Thematic focus area(s):

Key departments and people working on sustainable buildings:



Dr Oleg Golubchikov

Lecturer in Urban Resilience

Dr Golubchikov's research focuses on the relationships between urbanisation and radical societal transformations such as particularly linked to: (a) post-socialist transitions and (b) post-carbon transitions. Much of this research has been grounded in urban political economy, as well as informed by international policy work at the intersection of energy and sustainable urbanism.

Presentation: Draft Policy Guide to Sustainable Housing

Dr Golubchikov will present the draft structure of the Policy Guide to Sustainable Housing with a view to initiating discussion on its content, structure and additions that can strengthen the Guide prior to its publication.

University of Cambridge, UK

The Department of Architecture has been involved in energy efficiency in the built environment for decades. The environmental performance of buildings lies at the heart of our research work. The group addresses issues related to the modelling, design, construction, monitoring and use of buildings, both in the UK and internationally, developing innovative technologies, methodologies and tools for sustainable design.

We also focus on the design, construction and assessment of real buildings. Sustainable low-energy design strategies are developed incorporating natural ventilation, passive cooling, daylighting, sustainable construction and renewable energy technologies. We deliver working prototypes and buildings to test these strategies, which are then closely monitored against performance predictions and in terms of user perception and behaviour.

We work closely with the Centre for Sustainable Development in the Department of Engineering, and other groups in Cambridge, the UK and around the world. We have expertise on policies that drive sustainable social housing, construction methods (craft and mass), materials for low-carbon buildings, tools and teaching for the developing world, informal urban settlements, recovery monitoring and mapping. Current research projects include: retrofitting social housing for better energy performance; policies that drive sustainable construction; informal settlements in cities; engineered timber and bamboo for large scale construction; earth structures in seismic regions; The Ecohouse Initiative for transitional and permanent housing; Satellite monitoring for recovery and reconstruction

Organisation type: Academic

Geographic focus: Global

Thematic focus area(s): Building materials, construction technology and methods, housing design, housing policy, urban settlements, energy efficiency, building retrofit, slum upgrade, domestic use of energy etc

Key departments and people working on sustainable buildings: Department of Architecture: Michael Ramage, Minna Sunikka-Blank, Felipe Hernandez, Koen Steemers

Department of Engineering: Peter Guthrie, Heather Cruikshank, Allan McRobie


Mr. Michael Ramage

University Lecturer

Michael is an architectural engineer in the Department of Architecture and a fellow of Sidney Sussex College. His current research is focused on developing low-energy structural materials and systems in masonry, better housing in the developing world, and improved engineered timber. He teaches, researches and designs buildings. He has a degree in architecture from MIT. Prior to studying architecture, he had a Fulbright Fellowship to Turkey to study geology and archaeology. He is one of the designers of the masonry vaulting for the Mapungubwe Interpretive Centre in South Africa which won the World Building of the Year award in 2009.

Presentation: Build Better: Cambridge Contributions to Sustainable Housing

The Department of Architecture at Cambridge University has a number of ongoing research initiatives in the area of improving the performance of buildings: socially, culturally, environmentally and financially. This presentation will outline some of our current work



United Nations Economic Commission for Europe (UNECE) – Housing and Land Management Unit

UNECE works on housing related issues since its foundation in 1947. The Committee on Housing and Land Management (CHLM) coordinates this work. A flagship product is the Country Profiles on the Housing Sector series. 15 studies of countries with economies in transition have been prepared since 1996. In addition, the CHLM produces tools and policy guidelines to improve housing stock management. Guidelines cover a range of different areas on housing and land administration, such as Fraud and Land Administration, Sustainable Real Estate Markets, Informal Settlements, Spatial Planning, Social Housing, Condominium Ownership

Organisation type: International Organization
Geographic focus: Regional: 56 member States from North America (USA, Canada), Western and Eastern Europe as well as CIS countries in South Eastern Europe, Caucasus and Central Asia
Thematic focus area(s): Assistance with policy formulation and implementation on housing and land management sectors to national governments; Assessment of a country’s housing, planning and land administration systems; Advisory services and capacity-building activities as well as promotion of exchange of experience.; Thematic focus areas include modernization of housing stock, energy-efficient housing, social housing, land management, property registration, and new housing codes
Key departments and people working on sustainable buildings: UNECE/Trade and Sustainable Land Management Division/Trade and Timer Section/Housing and Land Management Unit
- Ms. Paola Deda, Chief of Section;
- Ms. Gulnara Roll, Head of Unit;
- Ms. Maike Christiansen, Climate Neutrality and Energy Efficiency Officer



Ms Maike CHRISTIANSEN

Climate Neutrality and Energy Efficiency Officer
 Maike Christiansen acts as Climate Neutrality and Energy Efficiency Officer in the UNECE Housing and Land Management Unit. Her work focuses on energy-efficient housing and climate neutral urban development in the region. Moreover, she is involved in preparing Country Profiles on the Housing Sector of countries with economies in transition.

Prior to joining UNECE, Maike has worked on issues related to urban environmental planning and climate change in cities for UN-Habitat and UNEP. She studied Geography in Berlin and Toronto. She also holds a Master of Arts in Interdisciplinary European Studies from the College of Europe in Warsaw.

Presentation: Greening Homes in the UNECE Region – Past and Future Activities

The presentation introduces UNECE and its Committee on Housing and Land Management (CHLM). It provides an overview of the CHLM’s work and expertise in the area of housing and land management, in particular in countries with economies in transition. It presents the CHLM flagship report series “Country Profiles on the Housing Sector” and the Committee’s work on “Green Homes” and energy efficiency in housing in the UNECE Region. The presentation concludes with an outlook on planned activities in 2012-2013.



UNEP – SBCI

UNEP-SBCI works to promote sustainable building practices worldwide. This is a joint effort with key stakeholders in this sector (industry, business, governments, local authorities, research institutions, academia, experts and NGOs.)

- Organisation type:* International agency
- Geographic focus:* Global
- Thematic focus area(s):* Sustainable building policies and practices: Common platform for stakeholders in building sector
Capacity building of national and local authorities in sustainable building policies
- Key departments and people working on sustainable buildings:* Curt Garrigan, Coordinator- UNEP-SBCI
Arab Hobaoah, Branch Head, Sustainable Consumption and Production, UNEP
Soraya Smaoun, Acting Head, Built Environment Unit, UNEP-DTIE

Mr. Curt Garrigan

UNEP-SBCI Coordinator

Prior to joining UNEP, Curt Garrigan served in a number of capacities for the city government in Nashville, Tennessee including Deputy Mayor, where he coordinated municipal policies and initiatives and assisted in developing the city’s \$1.5 billion budget. For the city’s Parks Department, he had served as Interim Director, and Assistant Director, leading the development and implementation of a ten-year \$260 million master plan, including buildings, parks and greenways. He previously had been Assistant Director of the city’s Historical Commission. Following Nashville’s historic flood, he was appointed by the city’s Mayor to coordinate planning and infrastructure for the city’s post-disaster Recovery Team.

Mr. Garrigan grew up in New Jersey USA and earned a Bachelor of Science in Architecture in 1985 from Temple University in Philadelphia, Pennsylvania. He has also earned a Certificate of Advanced Studies in Environmental Diplomacy from the University of Geneva.

Presentation: UNEP- Sustainable Buildings and Climate Initiative

Overview of UNEP-SBCI work and activities



University of the Witwatersrand , School of Architecture & Planning

50-years in architecture and planning Higher Education/Tertiary qualifications (including indigenous architecture), Building performance assessment and green architecture courses

25-years in sustainability and built environment: Sustainable housing course and research

10-years in collaborative work on adaptation and mitigation issues

Sustainable Housing Strategy: City of Johannesburg – 2000 - 2005

Holcim Awards for sustainable Construction (2004 – Present)

Promoting Renewable Energy Africa (PREA) (2006 – 2009)

Membership: Green Building Council of South Africa (GBCSA) (2010 – ongoing); Membership: International Solar Energy Society (ISES) (2009 – ongoing)

LEAN-CC: Linking European, Asian and African Networks of Climate Change (2011 – ongoing)

Several conference and academic journal papers; Several postgraduate thesis and dissertations supervised

Organisation type: Academic/Research institution

Geographic focus: Global south, and especially sub-Saharan Africa

Thematic focus area(s): Green architecture: design, construction and green-building rating systems; Green-building retrofitting; Green cities (including green infrastructure); Green-economy; Sustainable housing and settlements; Resilient cities: mitigation and adaptation; Life-cycle analysis in the built environment; Academic and Continuing Professional Development training (CPD); Advocacy for inclusive cities

Key departments and people working on sustainable buildings: Architecture & Planning (Daniel Irurah, Marie Huchzermeyer, Ken Stucke, Gerald Chungu, Philip Harrison)

Global Change and Sustainability Institute (inter-disciplinary learning/ teaching and research: Mary Scholes)
Gauteng City Region Observatory (GCRO) (David Evarett)



Dr. Daniel K. Irurah

Senior Lecturer: Sustainability and the Built Environment, School of Architecture & Planning,

Daniel is a Kenyan architect and urban environmental policy planner with specialisation in sustainability and the built environment. With research and consultancy interests focused on developing countries, Daniel’s core interest is the understanding and applied resolution to the dilemma of achieving socio-economic development for the majority within the tightening eco-limits of our planet. Although his main area of interest is energy efficiency and renewable energy in buildings and cities, he is also intensely engaged in the field of industrial ecology for the construction industry, and especially the cradle-to-grave-and-cradle cycle of construction materials. Daniel’s key interests in these fields is the coupling of green innovations to socio-economic development priorities such as jobs/skills and eco-entrepreneurship.

Presentation: Innovating new business models in bridging academic versus practice divide in green buildings and sustainable housing in sub-Saharan Africa

Prevailing business and practice models in the built environment sector is one of the key barriers in transiting to sustainable housing and cities practice in sub-Saharan Africa. My presentation will be arguing for innovative models which allows for faster transition and better spread of benefits in inclusiveness and positive socio-economic impacts



VTT Technical Research Centre of Finland

VTT has done research on different aspects of sustainable building since decades. There's a continuous stream of international research projects related with sustainability metrics and building performance, indoor climate and energy efficiency, product development, sustainability assessment and decision support tools. The focus is increasingly stretched towards sustainable neighbourhoods covering also infrastructure and economic and social assessment.

<i>Organisation type:</i>	<i>Public Research Organization (non-profit). VTT is a part of the Finnish innovation system under the domain of the Ministry of Employment and Economy.</i>
<i>Geographic focus:</i>	<i>Globally networked multi-technological contract research organization. The biggest in Northern Europe.</i>
<i>Thematic focus area(s):</i>	<i>Services by customer sector: Real estate and construction, Energy, Process industry and environment, Services and logistics, ICT, Forest industry, Machines and vehicles, Electronics, Biotechnology, pharmaceutical and food industries.</i>
<i>Key departments and people working on sustainable buildings:</i>	<i>VTT has 50 to 100 experts doing research on sustainable buildings. The number is bigger if the areas of waste management, transport, energy etc. are also counted.</i>

Ms. Carmen Antuña Rozado

Research Scientist, MSc (Arch)

Carmen Antuña, Research Scientist, MSc(Arch), has been working for VTT since 2010 when she joined the Life Cycle Management Team. Before working for VTT, she combined research (Technical University of Madrid) and teaching (SEK University/IE University). Her research field is related to Sustainability Indicators for the Built Environment. She is also a visiting tutor at Aalto University (International Wood Programme). MSc (Arch), Specialty: Urban Planning and Design. Member of the Spanish HABITAT Committee (Ministry of Housing) since 2008

Mr. Pekka Huovila

Chief Research Scientist, MSc (Tech)

Pekka Huovila has practical experience from building design and construction in Europe and in developing countries. During the past 20 years he has actively contributed to leading international research in the domain of sustainable built environment. Pekka has done at VTT several European Commission funded sustainable building related research and development projects. His international clientele consists also of organizations like UNEP, IEA, CIB, GTZ or OECD, and public and private clients, such as Beijing district local administration in China. He acts also as a Visiting Professor in University of Salford in UK.

Presentation: Approaches towards sustainable housing

Examples of VTT's sustainable neighbourhood projects are given from Kenya, China, Finland, Russia and Tanzania.



World Green Building Council

Founded in 1999, the WorldGBC is dedicated exclusively to sustainable building. We have 89 member GBCs around the world also working on sustainable building in their countries. We have a range of programs, activities and publications that support this mission.

Organisation type: NGO
Geographic focus: Global
Thematic focus area(s): Green building and green cities and communities
Key departments and people working on sustainable buildings: Jane Henley, CEO
 Michelle Malanca, Vice President
 Rick Fedrizzi, Chair-elect (and CEO and President of the USGBC)



Ms. Michelle Malanca

Vice President
 Michelle Malanca is Vice President of the World Green Building Council, overseeing the organization's policy and communications initiatives and its five Green Building Council Regional Networks. She has fifteen years of experience in the field of green building and environmentally sustainable development, from policy and strategy through to implementation and construction.
 She was previously the Technical Director at the Green Building Council of Australia, where she chaired working groups in the development of green building rating tools for several building sectors.

Presentation: World Green Building Council

The WorldGBC is a coalition of 89 Green Building Councils (GBCs) around the world. Green Building Councils use market dynamics to transform the building industry towards sustainability as well as advocate for government policies that support the development of more sustainable buildings.

Many GBCs use green building rating tools to push markets and ultimately building standards towards better environmental performance. While the focus of these tools has primarily been commercial and institutional construction, in recent years inroads have been made in the housing industry.

While there are examples of building certification models gaining traction in developed economies, the numbers of stakeholders, the scale of the problem and different economic factors make these less applicable to the developing world.

The WorldGBC sees parts of the solution coming from a number of areas, including the integration of social and economic criteria in to green building rating tools, streamlining of CDM processes, NAMAs, better building codes (and enforcement) and urban design requirements – all in addition to methods currently being employed by GBCs such as demand creation, capacity building, market incentives and advocacy. At a fundamental level, we have to help governments understand how green buildings can help them meet their social and economic goals.