



SESEC

SUSTAINABLE ENVIRONMENTAL SOLUTIONS FOR EMERGING COUNTRIES



Program 2010

SYMPOSIUM SESEC IX

THE SESEC IS NOT ONLY A SYMPOSIUM, IT IS A TOOL FOR BUILDING CONCRETE PROJECTS

OLYMPIC MUSEUM, LAUSANNE, SWITZERLAND
NOVEMBER 8, 9 AND 10, 2010

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DEFINE AN INTEGRATED APPROACH TO SUSTAINABLE DEVELOPMENT AT LOCAL SCALE

The economic crisis has increased the need for a new model of sustainable economic development for each territorial collectivity, whether it is situated in a developed or in an emerging country.

It is to think about it together and to try to reach a synthetic vision which integrates the political, economical, social, technological, ecological, political, legal and ethical aspects that the Symposium SESEC, Sustainable environmental solutions for emerging countries, has been created in 2001.

Both in theory and in practice, SESEC is NOT a classical symposium; it is a platform for the promotion of actual projects, consortiums project and for the identification of new financing sources.

The SESEC Committee strongly believes that, all around the world, economic growth is already depending and will increasingly depend on the ability to coordinate solutions to social challenges such as preserving a healthy environment, promoting energy savings, improving life-quality and providing healthy and enough food for everyone.

In that context, SESEC IX will present 'Best Practice' projects which have already shown positive results and demonstrates the benefits of adopting an integrated approach. In addition, SESEC IX will also help the participants with the organization and the development of new projects at local level, the creation of new jobs and the promotion of a more sustainable approach to the environment through a public / private partnership.

SESEC IX will take place for the 9th time, in the Olympic Museum from 8th till 10th, November, 2010.

SESEC IX - 2010

PROGRAM

(SIMULTANEOUS TRANSLATION / ENGLISH-FRENCH)

DAY I MONDAY AFTERNOON – NOVEMBER 8TH, 2010

13:30 – 14:15 Registration (*DOORS OPEN AT 13:30*)

14:30 – 16:00 **SESSION 1**

FIGHTING GREENHOUSE EFFECT

- **100% RENEWABLE APPROACH IN DEVELOPED COUNTRIES: A CONDITION FOR A 100% RENEWABLE DEVELOPMENT**
MR. ROGER NORDMANN, *MEMBER OF THE SWISS PARLIAMENT, PRESIDENT OF SWISSOLAR, SWITZERLAND*
- **PRESENTATION OF NATURAL DISASTER AND THE ADAPTATION TO CLIMATE CHANGE: THE BENEFITS OF HARMONIZATION**
DR. WALTER AMMANN, *CEO, GLOBAL RISK FORUM (GRF), DAVOS, SWITZERLAND*
- **HOW TO PROMOTE BEST PRACTICES: THE ROLE OF IFGRA, THROUGH SESEC AS AN EXCHANGE OF INFORMATION PLATFORM**
MR. DANIEL BRÉLAZ, *MATHEMATICIAN, MEMBER OF THE SWISS PARLIAMENT, MAYOR OF LAUSANNE, CHAIRMAN OF THE INTERNATIONAL FEDERATION FOR GREEN REGIONS ASSOCIATIONS (IFGRA), SWITZERLAND*

16:00 – 16:30 **Networking coffee break in the lobby**

16:30 – 18:00 SESSION 2

THE ROLE OF IFGRA (INTERNATIONAL FEDERATION OF GREEN REGIONS ASSOCIATIONS)

- CROATIA THE ROLE OF SUSTAINABLE DEVELOPMENT IN THE ECONOMIC DEVELOPMENT OF THE SLAVONIA REGION CROATIA**
MR. IVAN VRDOLJAK, *DEPUTY MAYOR OF THE CITY OF OSIJEK, CROATIA*
- ISRAEL 2010 YEAR OF AGROBIODIVERSITY**
DR. RAANAN KATZIR, *DIRECTOR, SUSTAINABLE AGRICULTURE CONSULTING GROUP, TEL AVIV, ISRAEL*
- BURKINA FASO DEVELOPING LOCAL FOOD PRODUCTION BY USING RENEWABLE ENERGY**
MR. AMBROISE TAPSOBA, *PRESIDENT CCJNC, BURKINA FASO*
- ITALY LAMBRO RIVER POLLUTION (NORTHERN ITALY): FROM PROTEST TO PROPOSAL**
MR. ROBERTO ALBANESE, *DIRECTOR, GREEN MAN INSTITUTE, MONZA, ITALY*
- MOROCCO TECHNOLOGICAL COOPERATION WITH MOROCCO FOR SUSTAINABLE DEVELOPMENT**
PROF. DR. ZOUBAIR CHERKAOUI, *DIRECTOR OF THE EXECUTIVE COMMITTEE, FONDATION SUISSE MAROC POUR LE DÉVELOPPEMENT DURABLE (FSMD), GENEVA, SWITZERLAND*
- CHINA COOPERATING WITH SWITZERLAND FOR A METHODOLOGY TO REINFORCE DAMS SECURITY**
A REPRESENTATIVE OF THE CHINESE MINISTRY OF WATER
- SWITZERLAND THE DAM SAFETY SWISS ORGANIZATION FOR EMERGING COUNTRIES**
MR. LAURENT MOUVET, *DIRECTOR, STUCKY LTD, SWITZERLAND*
- MODERATED BY: DR. KAJ NOSCHIS, PARTNER, COLLOQUIA, LAUSANNE, SWITZERLAND**

FOR IFGRA MEMBERS

The General assembly meeting will take place in the Auditorium from 18:00 to 18:30

18:00 – 19:00 Cocktail in the lobby of the Olympic Museum

DAY II TUESDAY MORNING – NOVEMBER 9TH, 2010

09:00 – 09:30 Registration

09:30 – 11:00 SESSION 3

METAMORPHOSE: A “SUSTAINABLE PROGRAM” MODEL FOR THE CITY OF LAUSANNE

- **GENERAL INTRODUCTION ON THE POLICY OF THE CITY OF LAUSANNE AND THE GENERAL PHILOSOPHY OF THE PROJECT METAMORPHOSE**
MR. OLIVIER FRANÇAIS, *MEMBER OF THE SWISS PARLIAMENT, MEMBER OF THE MUNICIPALITY OF LAUSANNE, SWITZERLAND*
- **ECODISTRICT “LES PLAINES DU LOUP”, COMPETITION AND RESULTS**
DR. ERIC TILBURY, *PROJECT MANAGER “METAMORPHOSE” PROGRAM OF THE CITY OF LAUSANNE*
- **SPORTS AND RECREATION**
MR. PATRICE ISELI, *HEAD OF OFFICE, SPORTS AND LEISURE DEPARTMENT OF THE CITY OF LAUSANNE*
- **URBAN PLANNING AND ENERGY**
MR. RÉMI BOUILLOUX, *UNIT «SUSTAINABLE INFRASTRUCTURES» OF THE CITY OF LAUSANNE*
- **CITIZEN PARTICIPATION**
MR. DENIS DÉCOSTERD, *HEAD OF OFFICE, CITY DEVELOPMENT AND COMMUNICATION*

11:00 – 11:30 Networking coffee break in the lobby of the Olympic Museum

11:30 – 13:00 SESSION 4

APPLIED ACADEMIC AND PRIVATE CONSORTIUM

- **A CONCEPT OF WASTE MANAGEMENT IN LAUSANNE**
MR. FADI KADRI, *HEAD OF SANITATION DEPARTMENT OF THE CITY OF LAUSANNE, SWITZERLAND*
- **HOW TO EVOLVE TOWARDS A CARBONFREE ELECTRICITY PRODUCTION**
PROF. JEAN-FRANÇOIS AFFOLTER, *HEIG-VD, YVERDON, SWITZERLAND*
- **FORMIC ACID: A COMPETITIVE SOLUTION FOR STORAGE OF ENERGY FOR OFF THE GRID, STAND ALONE INSTALLATIONS**
PROF. GABOR LAURENCZY, *EPFL, SWITZERLAND*
- **DYNAMISM IN CALIFORNIA TO SUPPORT INNOVATIVE ENVIRONMENTAL PROJECTS**
DR. CHRISTIAN SIMM, *EXECUTIVE DIRECTOR OF SWISSNEX SAN FRANCISCO, USA*

- **INVESTMENT IN ENVIRONMENTAL TECHNOLOGIES AND THE LEGAL RISKS ENTAILED IN CROSS-BORDER PROJECTS**

DR. ALBERTO M. ARONOVITZ, *LEGAL ADVISER, SWISS INSTITUTE OF COMPARATIVE LAW, DORIGNY, SWITZERLAND*
PROF. DARIO PETTINATO, *EUROPEAN UNION LAW AND INTERNATIONAL TRADE LAW, UNIVERSITY OF CATANIA, ITALY*

- **A VISION OF ENERGY**

DR. JACQUES-ANDRÉ HERTIG, *PRESIDENT OF THE SCIENTIFIC BOARD OF THE ENERGY FEDERATION OF WESTERN SWITZERLAND*

MODERATED BY: DR. KAJ NOSCHIS, PARTNER, COLLOQUIA, LAUSANNE, SWITZERLAND

13:00 – 14:30 **Networking Lunch in the Olympic Museum Restaurant**

DAY II **TUESDAY AFTERNOON – NOVEMBER 9TH, 2010**

14:30 – 16:00 **SESSION 5**

PUBLIC-PRIVATE PARTNERSHIP

- **SMEO, THE RED GUIDING LINE FOR SUSTAINABLE BUILDINGS & DISTRICT**
MR. YVES ROULET, *HEAD OF SECTION ENERGY, ENVIRONMENT & INFRASTRUCTURES – SERVICE BUILDINGS, PATRIMONY AND LOGISTICS OF THE STATE OF VAUD, SWITZERLAND*
- **EXAMPLE OF A COORDINATED POLICY OF SUSTAINABLE DEVELOPMENT AT REGIONAL'S SCALE**
MR. JEAN-MARC BUCHILLIER, *DIRECTOR, ASSOCIATION OF THE NORD VAUDOIS DEVELOPMENT (ADNV), YVERDON-LES-BAINS, SWITZERLAND*
- **CLEANTECH IN A «PUBLIC PRIVATE PARTNERSHIP» PROJECT OF SWISS COMPANIES AND UNIVERSITIES IN CENTRAL ASIA: MANAGEMENT OF HAZARDOUS SUBSTANCES AND WASTES (Toxcare-Project)**
PROF. MAURICE JUTZ, *UNIVERSITY OF APPLIED SCIENCE, BASEL, SWITZERLAND*
- **HOW TO WORK WITH THE BEST PEOPLE IN EUROPE AND GET FUNDED FOR IT BY THE EUROPEAN UNION**
DR. JULIAN RANDALL, *ENERGY AND TRANSPORT FP7 NATIONAL CONTACT POINT, EURESEARCH HEAD OFFICE, BERN, SWITZERLAND*
- **AN UPDATE ON THE AFGAN BIOFUELS PROJECT**
MR. MATTHEW SIMMONS, *MEMBER OF THE AEP TECHNICAL ADVISORY PANEL, ADJUNCT FACULTY SDSU AND MANAGER IMD*

16:00 – 16:30 **Networking coffee break in the lobby of the Olympic Museum**

16:30 – 18:00 **SESSION 6**

THE ROLE OF THE PRIVATE SECTOR

- **WATER MONETIZATION ON A FUTURES MARKET FOR ETHICAL, PHILANTHROPIC AND ENVIRONMENTAL PURPOSES**
MRS. VALÉRIE ISSUMO, *ECONOMIST, PROJECT LEADER AND INITIATOR AT PRANA SUSTAINABLE WATER, GENEVA, SWITZERLAND*
- **ENVIRONMENTAL TAXES : AN EASY WAY TO SUSTAINABLE DEVELOPMENT ?**
MR. CÉDRIC STUCKER, *CERTIFIED TAX EXPERT, DIRECTOR OF THE ENVIRONMENTAL TAX UNIT, HEIG-VD, YVERDON, SWITZERLAND*
- **VENTURE CAPITAL COMPANIES, AN EXCELLENT TOOL TO FINANCE STARTUP: A COMPARISON BETWEEN THE NORTH AMERICAN AND THE EUROPEAN APPROACH**
DR. LUC O. BAUER, *CONSULTANT AND VENTURE CAPITALIST, NANODIMENSION, NEUCHÂTEL, SWITZERLAND*
- **HOW TO FINANCE CUTTING EDGE TECHNOLOGIES BORN WITHIN THE EPFL STRUCTURE**
MR. OLIVIER TRANCART, *COFOUNDER POLYTECH VENTURES, PRESIDENT A3-EPFL ALUMNI ASSOCIATION, SWITZERLAND*
- **SWITCHER – THE BRAND SUCCESS AND THE “BEST PRACTICE” BASED ON RESPECT OF IMPERATIVE SOCIAL AND ENVIRONMENTAL CRITERIA FOR PRODUCTION AT LOCAL LEVEL**
MR. ROBIN CORNELIUS, *FOUNDER AND CEO OF SWITCHER GROUP, SWITZELAND*

MODERATED BY: **DR. KAJ NOSCHIS**, PARTNER, COLLOQUIA, LAUSANNE, SWITZERLAND

20:00 – 23:00 **Gala Dinner**

Buffet dinner in the Olympic Museum Restaurant

(NORTH ENTRANCE ON RESTAURANT LEVEL)

DAY III WEDNESDAY MORNING – NOVEMBER 10TH, 2010

ORGANIZED IN PARTNERSHIP WITH **alliance**

(CONNEXION BETWEEN EPFL AND UNIVERSITIES OF WESTERN SWITZERLAND WITH THE ECONOMIC WORLD)

08:30 – 09:00 Registration

09:00 – 10:30 SESSION 7

SOLUTIONS AND MODELS FOR TOMORROW

- **ENGINEERING SKILLS IN SWISS COMPANIES INVOLVED IN INTERNATIONAL PROJECTS ON SUSTAINABLE DEVELOPMENT**
PROF. DR. LAURENT VULLIET, *CEO BG CONSULTING ENGINEERS, SWITZERLAND*
- **DISTRIBUTED POWER – PRODUCE YOUR OWN HEAT AND POWER WITH SCROLL TURBINE**
MR. ANTONIO MENDES NAZARE, *DIRECTOR SALES & MARKETING, ENEFTECH INNOVATION, SWITZERLAND*
- **PROGRESS REPORT OF AMERICAN POLICY FOR INNOVATION IN ENERGY AND ENVIRONMENT**
MR. JEFF NEWMAN, *CALIFORNIA BUSINESS, TRANSPORTATION & HOUSING AGENCY (BTH), USA*
- **PLAN RAIL 2050, HOW THE FUTURE HIGH SPEED TRAINS WILL RECREATE THE UNITY OF THE COUNTRY DESPITE THE LANGUAGE BARRIER**
DR. DANIEL MANGE, *HONORARY PROFESSOR EPFL, LAUSANNE, SWITZERLAND*
- **THE REFORM OF SOCIETY AND THE REFORM OF LEGAL SYSTEMS IN LIGHT OF THE MODERN ENVIRONMENTAL AND TECHNOLOGIC CHALLENGES**
DR. LUKAS HECKENDORN URSCHELER, *VICE-DIRECTOR, SWISS INSTITUTE OF COMPARATIVE LAW, DORIGNY, SWITZERLAND*
- **CLEANTECH SWITZERLAND – THE LINK TO EXPORT MARKETS**
MR. ROLF HÄNER, *MANAGING DIRECTOR, CLEANTECH SWITZERLAND*
- **HOW TO INVOLVE THE ACADEMIC INSTITUTIONS IN APPLIED RESEARCH AND DEVELOPMENT**
DR. ROLAND LUTHIER, *DIRECTOR, ALLIANCE (CONNEXION BETWEEN EPFL AND UNIVERSITIES OF WESTERN SWITZERLAND WITH THE ECONOMIC WORLD), SWITZERLAND*

10:30 – 11:00 Networking coffee break in the lobby of the Olympic Museum

11:00 – 13:00 **SESSION 8**

KEY ROLE OF ACADEMIC INSTITUTIONS (EPFL AND HES-SO) IN INCORPORATING TRAINING AT ALL LEVELS

- **(A) PRESENTATION OF THE FACULTY «ENAC», SCHOOL OF ARCHITECTURE, CIVIL AND ENVIRONMENTAL ENGINEERING**
(B) SENSING TECHNOLOGIES FOR ENVIRONMENTAL MANAGEMENT
PROF. DAVID ANDREW BARRY, *DIRECTOR INSTITUTE OF ENVIRONMENTAL ENGINEERING ENAC, EPFL, SWITZERLAND*
- **THE IMPORTANCE OF A SPECIALIZED TRAINING IN ENERGY MANAGEMENT AND SUSTAINABLE DEVELOPMENT** (*The EPFL offshore project in the EUA*)
PROF. MAHER KAYAL, *ELECTRONICS LABORATORY (ELAB), EPFL, LAUSANNE, SWITZERLAND*
- **NEW NANOCRYSTALLINE SOLAR CELLS**
PROF. MICHAEL GRAETZEL, *EPFL, LAUSANNE, SWITZERLAND*
- **NEW ARCHITECTURES MADE OUT OF WOOD : FOR CONSTRUCTIVE, INNOVATIVE, ENVIRONMENTALLY - FRIENDLY AND ECONOMICALLY VIABLE SOLUTIONS**
PROF. DR. YVES WEINAND, *IBOIS LABORATORY, ENAC, EPFL, LAUSANNE, SWITZERLAND*
- **REACHING THE POLE. ANTHROPOLOGY AND ERGONOMICS IN DESIGNING INNOVATIONS FOR SUSTAINABLE DEVELOPMENT**
DR. PHILIPPE GESLIN, *PROFESSOR HE-ARC, NEUCHÂTEL, SWITZERLAND*
- **EXPLORATION OF ROOM TEMPERATURE IONIC LIQUIDS AS NEW CLASS OF SOLVENTS FOR CHEMICAL REACTIONS**
PROF. DR. ENNIO VANOLI, *HES-SO, FRIBOURG, SWITZERLAND*
- **SYMPOSIUM CONCLUSION, THE ADVANTAGE OF EXCHANGING BEST PRACTICES FOR THE PROMOTION OF SUSTAINABLE DEVELOPMENT**
MR. DANIEL ZÜRCHER, *HEAD OF SECTION INNOVATION, FEDERAL OFFICE FOR THE ENVIRONMENT, BERN, SWITZERLAND*

MODERATED BY: **DR. KAJ NOSCHIS, PARTNER, COLLOQUIA, LAUSANNE, SWITZERLAND**

13:00 – 14:00 **Networking Lunch in the Olympic Museum Restaurant**

DAY III WEDNESDAY AFTERNOON – NOVEMBER 10TH, 2010

14:00 – 14:30 Transfer to the sites

PRESENTATIONS AND VISITS:

14:30 – 16:30 SESSION 9

CHOICE OF PRESENTATIONS AND VISITS

- **ORGANIZED IN PARTNERSHIP WITH ALLIANCE**

VISIT OF THE SWISS FEDERAL INSTITUTE OF TECHNOLOGY (EPFL)-LAUSANNE.

→ PRESENTATION OF THE ECOLOGICAL ENGINEERING LABORATORY, ENAC, BY PROFESSOR D. A. BARRY

→ PRESENTATION AND DEMONSTRATION OF GRAETZEL DYE SOLAR CELLS BY PROFESSOR M. GRAETZEL

→ PRESENTATION OF THE ELECTRONICS LABORATORY (ELab) BY PROFESSOR M. KAYAL

→ PRESENTATION OF THE LABORATORY IBOIS, ENAC, BY PROFESSOR Y. WEINAND

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