

Frontiers of Research in Industrial Ecology

SCIENTIFIC WORKSHOP

University of Lausanne

November 27 - December 1, 2006

www.unil.ch/ipteh



UNIL | Université de Lausanne

Faculté des géosciences
et de l'environnement

LUNDI 27 NOVEMBRE (SESSIONS EN FRANÇAIS)

SESSION 1 - ETHIQUE ET INTERPRETATIONS DE L'ÉCOLOGIE INDUSTRIELLE

SALLE ANTHROPOS – AMPHIPOLE, UNIVERSITÉ DE LAUSANNE

9.00 – 9.20 Une éthique écologique a-t-elle des fondements rationnels ?

Joel Jakubec, théologien, pasteur de l'Eglise protestante de Genève, CH

9.20 – 9.40 Valeur intrinsèque et artificialisation de la nature : chance ou risque?

Dr. Cérald Hess, éthicien, IPTEH, Office fédéral de l'environnement, CH

9.40 – 10.00 Dans quelle mesure le primat de la dette morale porté par la consommation responsable est-il opposé au droit social ?

Frédéric Paul Pigué, moraliste, doctorant, IPTEH, Université de Lausanne, CH

10.00 – 10.30 Discussion

10.30 – 11.00 Pause-café

11.00 – 11.45 L'écologie industrielle : une critique du point de vue de l'économie politique

Dr. Franck-Dominique Vivien, Laboratoire « Organisations marchandes et institutions », Université de Reims Champagne Ardenne, France

11.45 – 12.30 Discussion

SESSION 2 - LES ECHELLES TERRITORIALES DE L'ACTION ÉCOLOGIQUE

SALLE DE CONFÉRENCE DE LA BCU, UNITHEQUE, UNIVERSITÉ DE LAUSANNE

14.00 – 14.10 Présentation de la session

Dr. J. Salomon Cavin, collaboratrice scientifique, IPTEH, Université de Lausanne

14.10 – 14.45 L'écologie industrielle : mise en œuvre à l'échelle d'un territoire.

Sabrina Brullot, doctorante, Université de Technologie de Troyes, France

14.45 – 15.30 Santé humaine et environnementale : quelle échelle de réflexion pour l'aménagement urbain ?

- Les micropolluants dans les matériaux de construction : quel impact pour l'eau en ville ? quelles solutions pour protéger durablement sa qualité ?

Dr. Nathalie Chèvre, collaboratrice scientifique IPTEH, Université de Lausanne, CH

- L'aménagement du territoire : quel impact sur la santé publique ? comment l'évaluer ?

Simon Richoz, diplômant master, IPTEH, Université de Lausanne, CH

15.30 – 15.45 Pause-café

15.45 – 16.20 L'articulation des échelles spatiales en jeu dans le développement urbain durable

Dr. Cyria Emelianoff, maître de conférence, GREGUM-ESO, Université du Maine, France

16.20 – 16.55 Jeu d'échelles à partir de la mise en œuvre de la loi sur la protection de l'environnement

Dr. Jean Ruegg, professeur, IPTEH, Université de Lausanne, CH

16.55 – 17.30 Discussion et synthèse

TUESDAY 28th NOVEMBER

SESSION 3 - ECONOMICS & INDUSTRIAL ECOLOGY: STRENGTHS & LIMITS OF EXISTING PARADIGMS

BCU CONFERENCE ROOM, UNITHEQUE, UNIVERSITY OF LAUSANNE

9.00 – 9.05 Introduction

9.05 – 9.50 Lessons from the efficient market, environmental & ecological economic theories.

Dr. Beat Burgenmeier, professor, director of the Centre of Human Ecology and Environmental Sciences, University of Geneva, CH

9.50 – 10.30 The Chinese circular economy model

Dr. Dajian Zhu, Professor, Head, Research Center of Sustainable Development and Governance, Tongji University, Shanghai, China.

10.30 – 11.00 Coffee break

11.00 – 12.30 Economic Rationality and Ecological and Social Reason: Why it is so difficult to actualise the paradigm and the knowledge of industrial ecology

Dr. Rolf Steppacher, senior lecturer, Graduate Institute of Development Studies (IUED), Geneva, CH
Valentina Liakhova, PhD candidate, Graduate Institute of Development Studies in Geneva (IUED), CH

SESSION 4 - METHODOLOGIES FOR IMPLEMENTING SUSTAINABLE DEVELOPMENT

BCU CONFERENCE ROOM, UNITHEQUE, UNIVERSITY OF LAUSANNE

14.00 – 14.05 Introduction

Pascale Schwab Castella, PhD candidate, IPTEH, University of Lausanne, CH

14.05 – 14.35 Regional MFA development: Results of economy-wide material and energy flow accounting in the Czech Republic

Miroslav Havranek, Centre for Environment, Charles University, CZ

14.35 – 14.55 Methodological developments including economic aspects I: International environmental accounting: assessing global production-consumption chains.

Damien Friot, scientific collaborator, Laboratory of Applied Economic, University of Geneva, CH

14.55 – 15.05 Methodological developments including economic aspects II: Added value analysis, North-South relations

P.D. Jose, professor, Indian Institute of Management, Bangalore, India

15.05 – 15.25 Discussion

15.25 – 15.45 Coffee Break

15.45 – 16.15 Methodological developments including social parameters: Dynamics of consumption and waste flows in developing countries: The role of social strata in MFA

Dr. Claudia Binder, professor, University of Zurich, CH

16.15 – 17.00 Discussion

17.30 – 18.30 CONFERENCE ON INDUSTRIAL ECOLOGY PERSPECTIVES

AMPHIMAX 410, UNIVERSITY OF LAUSANNE

Dr. Reid Lifset, professor, editor-in-chief of the Journal of Industrial Ecology, Yale University, USA

WEDNESDAY 29th NOVEMBER

SESSION 5 – SUSTAINABLE CONSUMPTION

BCU CONFERENCE ROOM, UNITHEQUE, UNIVERSITY OF LAUSANNE

9.00 – 9.45 Ecological Footprint and Biocapacity Accounting

Justin Kitzes, research associate, National Accounts Program, Global Footprint Network, UK

9.45 – 10.15 Discussion

10.15 – 10.30 Marketing versus sustainable consumption?

Jacqueline Ceccon, Former international Product Manager, SEB Group, Master in Ethics and Sustainable Development, France

10.30 – 11.00 Coffee break

11.00 – 11.30 Prioritizing environmentally sound consumption patterns - Key decisions and potential improvements of the environmental balance

Josef Kaenzig, PhD candidate, the University of St. Gallen, CH

11.30 – 12.00 Is sustainable consumption possible ?

Aline Clerc, Swiss french consumers organisation (Fédération romande des consommateurs), Specialist for Environment and Agricultural policy, CH

12.00 – 12.30 Discussion

SESSION 6 : THE FUTURE OF ENERGETIC SYSTEM

BCU CONFERENCE ROOM, UNITHEQUE, UNIVERSITY OF LAUSANNE

9.00 – 9.45 Towards Rational Energy Use: a basis for a sustainable energy system

Dr. Bernard Aebischer, senior energy analyst, center for energy policy and Economics at ETHZ, CH

9.45 – 10.30 The role of bioethanol in tomorrow fuels - the Swiss etha+ project case

Dr. Nicolas Macabrey, Planair SA, CH

10.30 – 11.00 Coffee break

11.00 – 11.45 Assessing bioethanol sustainability for two scenarios: partial production in Switzerland versus full importation from Brazil.

Dr. Isabelle Blanc, scientific collaborator, IPTEH, University of Lausanne, CH

11.45 – 12.30 Discussion

THURSDAY 30th NOVEMBER

SESSION 7 : INDUSTRIAL SYMBIOSIS

BCU CONFERENCE ROOM, UNITHEQUE, UNIVERSITY OF LAUSANNE

8.30 – 8.40 Introduction

Dr. Suren Erkman, IPTEH, Université de Lausanne, CH

8.40 – 9.05 The industrial symbiosis: history of Kalunborg, Denmark

Dr. Jørgen Christensen, Symbiosis Institute, DK

9.05 – 9.30 Development of Industrial Symbiosis in Yorkshire & Humber, United Kingdom

Dr. Malcolm Bailey, Director NISP Yorkshire & Humber, National Industrial Symbiosis Programme, UK

9h30 – 9h50 Methodology for building industrial symbiosis networks in the Geneva region, Switzerland

Guillaume Massard, PhD candidate, IPTEH, Université de Lausanne - CH

9h50 – 10h10 Coffee Break

10h10 – 10h35 Urban Metabolism

Dr. Sabine Barles, professor, French Urbanism Institute, Université de Paris 8 – FR

10.30 – 11.30 Discussion

INTERNATIONAL CONFERENCE ON INDUSTRIAL ECOLOGY



OLYMPIA ROOM, HOTEL MÖVENPICK, OUCHY, LAUSANNE

13.15 – 14.45 Opening : Implementing Sustainability

Dr. Suren Erkman, Professor, IPTEH, University of Lausanne, CH

Hilary McMahon, Programme Manager, World Business Council for Sustainable Development, Geneva

Dr. Dajian Zhu, Professor, Head, Research Center of Sustainable Development and Governance, Tongji University, Shanghai, China.

14.45 – 15.45 Session I : Optimizing the Use of Resources

Dr. Philippe Thalmann, Professor, Economics and Environmental Management Laboratory, EPFL, CH

Dr. Cyria Emelianoff, Associate Professor, GREGUM, University of Maine, Le Mans, France

Dr. Christof Holliger, Professor, Laboratory for Environmental Biotechnology, EPFL, CH

Dr. Jørgen Christensen, Director, JC Consult, Kalundborg, DK

16.15 – 18.00, 19.30 – 21.00 Session II : Closing Material Loops

Dr. Malcolm Bailey, Programme Director, National Industrial Symbiosis Programme, United Kingdom

Rémy Beck, Assistant director, Geneva State Agency of Environment (ScanE), CH

Dr. Matthias Finger, Professor, Director, Management of Network Industries Chair, EPFL, CH

Dr. Christophe Lasseur, Melissa Project Leader, European Space Agency, Netherlands

Romain Ferrari, Director, Ferrari SA, France

18.00 – 19.30 Cocktail dinner

FRIDAY 1ST DECEMBER

INTERNATIONAL CONFERENCE ON INDUSTRIAL ECOLOGY



OLYMPIA ROOM, HOTEL MÖVENPICK, OUCHY, LAUSANNE

9.00 – 10.30 Session III : Dematerializing Economic Activities

Dominique Bernard, Director, Industrial Ecology Division, Groupe Lafarge, France

Dr. Dominique Bourg, Professor, IPTEH, University of Lausanne, CH

P. D. Jose, Professor, Indian Institute of Management Bangalore, India

Dr. Sabine Barles, Professor, French Urbanism Institute, Université de Paris 8, France

10.30 – 10.45 Coffee break

10.45 – 11.45 Session IV : Decarbonizing Energy

Dr. Daniel Favrat, Professor, Industrial Energy Systems Laboratory (LENI), EPFL, CH

Dr. Hans-Björn Püttgen, Professor, Energetic Systems Management Chair, EPFL, CH

11.45 – 12.45 Closing : Planning Long Lasting Sustainability

Paolo Baracchini, Consultant, Economics and Environmental Management Laboratory, EPFL, CH

Dr. Suren Erkman, Professor, IPTEH, University of Lausanne, CH

12.45 – 14.00 Cocktail lunch