

THE MICHEL SERRES INSTITUTE, FOR RESOURCES AND PUBLIC GOODS



“L’EFFET DE SERRES” YEAR 1 – GETTING THE NETWORK STARTED

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The Institute is a Laboratory Without Walls and think-tank (see the **map**). Its basic task consists in acting as a facilitator and bridging agent between dedicated institutions, programs, centres, but also between disciplines and across science and society. To these ends, the Institute benefits from the continuous commitment of Michel Serres, his Honorary Fellow, *President d’Honneur*.

The first year has been devoted to
(1) confirm existing and search additional partners in order to ensure a balanced expertise on resources at regional, national, and international levels and
(2) diffuse the Institute ideas through conferences, workshops and student activities.

The document illustrates the work performed essentially by the Lyon component of the Institute, expecting to generate an initial “matrix” making it possible to coordinate and nucleate future work within the network.

The 2013 annual session is scheduled to take place at the final meeting of the ERC “Lascaux” program directed by François Collart Dutilleul, Nantes, November 26-27.

1. INSTITUTE POSITIONING, ORGANIZATION, AND CHALLENGES – TOWARDS A RESOURCE-SYSTEMS APPROACH

The organization and missions of the Institute have been approved at the Launch Conference 2012 by the Advisory Board and are outlined at <http://michelserresinstitute.ens-lyon.fr/>.

Considering the founding missions of the Institute, the 2012-13 objectives concentrated on:

- (1) Start developing ecosystem accounting tools at regional scale in order to preserve the life-supporting capacity of natural systems (put the economy within the limits of the biosphere);
- (2) Analyzing legal systems and tools enabling to define and access fundamental human needs / necessities (what social order, contract?);
- (3) Exploring intellectually the ecological transition process through teaching and research.

Altogether, achieving these objectives require a systems approach strategy.



Geographical distribution of the institute founding members

THE REGIONAL WORK GROUP IN RHÔNE-ALPES

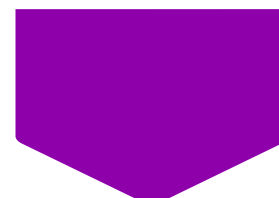
The regional work group in Rhône-Alpes is representing the Institute's local involvement and strategy. The tasks consist in setting up a regional stake-holder network, a foundation for a regional platform on resources and climate. This will operate as an aid to decision making (prioritize activities and policies, target setting etc). 14 members contribute expertise in various sectors as outlined in **Appendix 1**.

In addition, agreements has been made with:

Résumé : Michel Serres Institute (IMS) in numbers, October 2012- November 2013.

Key words: bioproductivity, conceptual developments, deep interdisciplinarity, ecological transition, ecosystem accounting, fundamental human needs, resource-systems approach.

Note: the figures in columns 2-4 concern mainly the Lyon activities (the overall network main figures in yellow).



ORGANIZATION	RESEARCH	EDUCATION	SOCIETY	FUNDING
Institute w/out walls. Networking: Regional (4), National (5), International (8) In brackets, number of partners.	2 post-docs 1 PhD 2 internships 6 publications (+) 8 seminars, conferences	1 masters degree (Geography) 2 courses (Biology) Continuous education (2014, "ecological transition") 11 colleagues of the network taught courses, BioSciences Masters degree	Student prize 2012 "serious games" on resources Institute prize, First edition, Nantes 2013 Diffuse IMS ideas (7 conferences and workshops)	(not including permanent staff) Ongoing: 170.6 k€ Pending: 148 k€
Rhone-Alpes IMS work group: 14 IMS team 2013 : 9 ENS associates: 8 researchers (6 disciplines)				

(1) the Institute of Environmental Law in Lyon, headed by Philippe Billet,

(2) the “Chaire industrielle de l’eau: rationalités, usages, imaginaires”, head Jean Philippe Pierron (Université Jean Moulin Lyon3),

(3) the ISARA joint program (regional agriculture institute, contacts Philippe Fleury, Aurélie Ferrer),

(4) the Envirhonalp consortium (environmental issues; contacts Cécile Delolme, François Renard).

THE NATIONAL NETWORK

The network has been conceived to upgrade at national level the resource-systems approach through research and teaching in order to balance the dominant culture and agendas on sectoral issues (energy, biodiversity) and climate change.

Partnerships have been agreed on with :

(1) the Veblen Institute in Paris, Economy, head Philippe Frémeaux ;

(2) the “Lascaux” ERC program on food and land law, head Francois Collart Dutilleul, University of Nantes ;

(3) Département Ecologie et Gestion de la Biodiversité, UMR 7204 at the National Museum of Natural History, head Denis Couvet ;

(4) Laboratoire montpellierain d’économie théorique et appliquée (LAMETA), head Jean-Michel Salles, CNRS, SupAgro Montpellier.

INTERNATIONAL NETWORK AND DEVELOPMENTS

With Jean Louis Duclos, head of the ENS International Office, a coordinated action sustaining the international strategy of the ENS de Lyon is being performed.

The longer term objective is to open the international scientific and political agendas to the geo-politics of natural resources.

The short term objective is to gather the

required expertise necessary to achieve the critical mass in international research and education on various topics on natural resources across disciplinary boundaries.

The present network of founding and associated international partners (8) is presented in **Appendix 2**. The level of partner involvement is variable, but the idea is to achieve a “variable geometry” partnership across the network and exploit the flexibility of research agendas to create an adaptive and evolving network in time.

WEB SITE – COMMUNICATING IMS ACTIVITIES

Anne Chemin-Roberty (IMS/ENS Lyon) is managing the site.

A new web site has recently been developed. The deep interdisciplinarity of the Institute is illustrated through a pyramid sketch. The number of visitors to the web site is 800 visitors per month and 9900 visitors the year around. The idea is to cross-reference the partner sites and increase the global connectivity and visibility of each member of the network.

The website has been used to inform on ongoing activities and publications. In particular,

- the “Scientists’ Consensus on Maintaining Humanity’s Life Support Systems in the 21st Century” with Nils Stenseth as one of the instigators (<http://mahb.stanford.edu/endorsethe-message-to-world-leaders/>)

- 1st anniversary statement (see **Appendix 3**)

- the “Resources” reference section on the site has been re-organized;

- the society section is centred on student activities (winners of a 2012 national prize etc).

The webpage has been used to generate a Glossary on resources and related terms. This has allowed identifying a series of primary notions that will make the subject of coordinated publications on bioproductivity, resources efficiency, competition, responsibility, framing. The contribution of Wendy Leeds-Hurwitz is acknowledged here.

Institute Team

For administrative considerations, the Institute is registered at ENS de Lyon as a research team since December 2012

(decision of the ENS Scientific and Administrative councils).

It is hosted by the IXXI Institute on complex systems of Lyon.

The team is composed of

-2 permanent staff :

Anne Chemin-Roberty,
Ioan Negrutiu

-2 pedagogic associates : Prof. assistant Morgane Ollivier, PhD assistant Coraline Petit

-2 post-docs at the Collegium : Claire Malwe, Edgar F Fernandez

-1 PhD student : Frédéric Ducarme, (co-tutelle system with D Couvet, MNHN Paris)

-2 internship students : Mihaela Enache, Elodie Perrin

Are associated to the Institute within the ENS:

Jean-Pascal Bassino, director IAO (Far-East Asia Institute; economy / social sciences)

Eric Fleury (Informatics Lab), at IXXI

Valérie Fontanieu, IFE at ENS (education institute, statistic section)

Pablo Jensen (Physics Lab), at IXXI

Yves-François Le Lay, Luc Merchez, Julie Le Gall (EVS lab, geography and social studies)

Gerard Wormser, IFE at ENS (philosophy and communication)

2. RESEARCH, EDUCATION, SOCIETY

2.1 RESEARCH

The objective is to take a systematic approach to the resources problematic and upgrade some of the achievements of the 1970-1980 works and ideas, such as linking molecular to planetary levels of understanding, insisting on the historical geo-political dimension of resources, by analysing the natural, cultural, and social dimensions of resources use, management and re-adjustment.

The CNRS International network (GDRI)
An application has been made in December 2012 to the CNRS for establishing an international network on resources. Still decision pending, as transferred from INEE (ecology/environment) to the MI (Interdisciplinary Mission) of the CNRS.

The ongoing research activities

Legal studies

Postocs at the Collegium of Lyon: Claire Malwe and Edgar Fernandez (legal studies on legal aspects of resources allocation and management. Active contacts in Costa Rica, New Zealand and Australia on the resources program.

Ecosystem accounting tools

The research agreement with EPFL is mobilizing bilateral capacities to approach the subject with dedicated human and financial needs on both sides. The title of the project is "Natural capital accounting at regional scale".

The project is covering the Rhône river basin and hinterland from its source to the sea (encompassing a variety of the Rhône-Alpes region geographical and socio-economic entities).

Other fields of research on resources have been dealing with education aspects. The corresponding internships are detailed in **Appendix 4**. Note that two students are coming from the humanity field.

Joint student activities

Under the supervision of Hubert Pinon (IMS), this include inventories on resources programs, centers, institutions, and corporate to be used under the format of a participative database.

Objectives: identify overlaps and gaps, and subsequently perform targeted coordination of pro-active networking in order to push the resource problematic on various agendas (research, politics etc).

PUBLICATIONS

The publication areas we started to cover are part of a systematic approach to resources and related subjects: systems approach, agriculture, bioproductivity, biomass, demography, regional scale, links between natural sciences and legal studies.

First papers to which have contributed members of the network are listed in **Appendix 5**.

The objective is to establish an across network publication record that illustrates the network production on the resource problematic.

Partners are requested to periodically feed the list.

Seminars, workshops, conferences

Contributions to 15 meetings have allowed the Institute to come on the international and national scenes and are shown in **Appendix 6**.

2.2 EDUCATION, TEACHING

The ENS de Lyon contribution is discribde here :

(1) The Masters' degree program, Stade (Territorial Systems, Aid to Decision, Environment), Social Sciences department. Concentrates on EU construction, water and other resources, SIG systems, etc.

(2) the advanced course "Bioresources and Biodiversity" 2013, we had the first 5 international students registered to the

course. The 2013 program is attached (Institute website, education section "/masterbiosciences/presentation-des-ue-1/les-ue-europe/biodiversity/"). The ISARA cooperation is effective starting 2013-2014 (coordination Aurélie Ferrer).

(3) "Science and society" masters degree course has been organized with funding from IDEX system on the following themes (Institute website, education section "/ue-bioethique-histoire-des-sciences-et-communication-scientifique") :

-2012 session, "responsibility", with a workshop on "Co-responsibility in Science", January 2013 (Institute website, society section)

- 2013 session, "ecological transition", with students covering the subject by working on 30 integrated issues. The idea is to provide a primer for a participative platform permanently feeding the transition problematic. Pablo Jensen at IXXI, C. Malwe and E Fernandez at the Collegium and JP Bassino are contributing to the project.

The colleagues that have participated to the teaching activities are Jean-Pascal Bassino, Matthieu Calame, Denis Couvet, François Collart Dutilleul, Edgar Fernandez, Pablo Jensen, Claire Malwe, Jean-Philippe Pierron, Jean-Michel Salles, Jean-Louis Weber, Gérard Wormser.

(4) Continuous education.

The Institute is the instigator of the regional education cycle labelled "Cycle rhônalpin d'études avancées en développement durable".

The strategy consisted in associating existing structures at university (Envirhonalp consortium) and corporate (regional Club of sustainable development managers, C3D) levels that is coordinated by the ENS Lyon. The 2014 program is under the heading "penser la transition / working out the transition". The institute is coordinating two sessions (out of 10) on agriculture and legal aspects of the transition process. Colleagues from the regional network are part of the teaching set-up (ISARA, EVS lab, the IMS team).

First discussions also took place on the project "Maison de la science et

des technologies" in Lyon, directed by the Academy of Science. The aim is to provide experimental tools to teachers in science. Our objective is to secure two regional genetic resources, silkworm and mulberry tree collections, by integrating them in a sericulture project, including a silkworm experimental toolkit for schools.

2.3 THE INSTITUTE AND THE SOCIETY

The philosophy here is to bring awareness to society at large by activities that are mainly developed by the students. Participative platforms under construction are meant to bring information to society at large. The following examples illustrate the approach.

The prize EpE / Metro 2012 "Ressources en jeux": the winners were masters degree students and PhD students (a team of 8) at ENS Lyon: the project was developed during the courses presented in section 2.2.

The "sablier / sand-clock" of the Michel Serres Institute has been initiated by PhD, post-doc and young researchers (Enrico Costanzo, Frédéric Ducarme, Julien Desseigne, Olivier Hamant) and will be awarded for the first time at the Rencontres internationales, "Penser une démocratie alimentaire" Nantes, Nov 27. The Sablier is an annual reward underlying activities or initiatives that pretend or intend improving the management of natural resources (and may reveal green washing or green bashing strategies). The rewardees are encouraged and accompanied in their quest to achieve their goals in real life. This is expected to impulse changes in production, consumption patterns and life styles.

Note that 7 of the conferences in section 2.1 have been targeted towards the society.



Michel Serres Institute

for Resources and Public Goods



Création graphique
Anne Chemin-Roberty
Ets de Lyon 2012

3. CONCLUSIONS

Through the 2013 conference and seminar series, the diffusion of the ideas and missions of the Institute has been actively promoted. The education dimension has been enforced and priority should be directed to maintaining the trend. The next step in spreading our ideas and actions is to develop the research dimension and ensure the links towards the decision makers and the society.

The 2014 Advisory Board meeting is planned in Lyon, June 2014 (to be discussed at the Nantes conference, November 27, 2013).

4. PREPARING 2014

The second year of the Institute will be marked by two essential trends: (1) focus the research activities on projects allowing to understand the ecological transition process by building systematic links between food, health, education, and environment and (2) open and clarify the overall organization structure with the partners.

For the research agenda, bilateral

agreements to be finalized with international partners include EPFL, the Oslo University, USAMV Cluj and Canberra University.

At regional level, the objective is to make IMS an ENS "window" for science and society through deep interdisciplinarity and all stakeholder involvement. To that end and within the "Envirhonalp" consortium we are actively working at generating a regional collaborative platform and database on resources and climate change in Rhône-Alpes (December 2 meeting).

Publishing the inventory work on institutions, programs, corporate targeting "resources" is an urgent task as it is only on that basis that we can start networking ongoing initiatives in various parts of the world. The Davos conference of the WRF (October 2013) can serve as frame on how to join forces. On those lines, starting 2015, the Institute will produce synthesis reports / views as an aid to decision making.

The organization of the Institute is becoming an adaptive and flexible coordination cluster system based on:

(1) Autonomous development and contributions of acting partners in the area of legal, socio-economic studies,

natural sciences and local science-society links (see the pyramid symbol of this evolution on the website). For example, the legal studies are directed by F Collart Dutilleul in Nantes (agreement finalized at the Nantes conference, November 27, 2013) on how the "Lascaux" achievements will further develop within the Institute activities and focussing on food democracy, land use and land law studies.

(2) The synergy in the overall resource program of the Institute will be achieved through philosophical conversations across the diversity of interdisciplinary projects and seminars, with expected early developments through the Anthropocene project. The education program "The Anthropocene curriculum", planned November 2014 is a two-step process with the preparatory meeting in Berlin, January 24-26 (participating Pablo Jensen and Ioan Negrutiu; www.anthropocene-curriculum.org).

APPENDICES

APPENDIX 1

Rhône-Alpes Work group 2013

Coordination

Ioan Negrutiu, Biologie, ENS Lyon

Organisation et Communication

Anne Chemin-Roberty, ENS Lyon

Activités Internationales

Jean-Louis Duclos, ENS Lyon

Programme bilatéral ENS-EPFL

Lausanne: Gérard Escher, EPFL

Agricultures en transition et territoires ruraux

Yves François

Clarification intellectuelle

Gérard Wormser

Collectivités et Economie territoriale

Philippe Vieille

Jeunesse, labo junior et sablier IMS

Frédéric Ducarme

Juridique, bilatéral Institut

Droit de l'Environnement

/ Institut Michel Serres

directeur Philippe Billet, IDE Lyon3

Perspective managériale

Paul-Marc Collin, IAE Lyon3

Perspective historique et Géo-politique des ressources naturelles

Maureen Michotte

Fabien Milanovic

Presse/ Environnement en Rhône-Alpes

Michel Deprost, Enviscope

Recherches, bases de données

Hubert Pinon

Société civile (interface avec la)

Frédéric Jacquemart (pour FNE, GIET, MCDR)

APPENDIX 2

Network of founding and associated international partners

* Center for Ecological and Evolutionary Synthesis, CEES, head Prof. Nils C. Stenseth, Oslo University, Norway. Cooperation program on education and research is in progress;

* Ecole Polytechnique Fédérale de Lausanne (EPFL) Switzerland, Prof. Philippe Gillet

A collaboration has been initiated with the EPFL partners after meetings in

February, June and September 2013 to work out the projects.

A research project on the monitoring of natural resources at regional scale has been worked out in detail during a seminar organized by the IXXI Institute in April with a major contribution of JL Weber and JP Bassino.

* Center for Intercultural Dialogue (CID), Council of Communication Associations, head Prof. Wendy Leeds-Hurwitz, University of Wisconsin, USA.

Early contribution to the launch conference, web site development and resource institutions inventory projects.

* University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca (USAMV), Romania – Prof. Doru Pamfil.

A sister institute is planned within the frame of the Romanian Academy.

* Sustainable Europe Research Institute (SERI), a Pan-European think tank exploring sustainable development options for European societies – Dr Stephan Lutter, (<http://seri.at/>)

* Tim Benton (Prof; Leeds University), UK Champion for Global Food Security

* Norman Borlaug Institute (Nottingham University /Rothamstead RC), director Prof. Malcolm Elliot, co-chairman Prof. Edward Cocking.

Cooperation through the Editorial Board of Agriculture and Food Security.

* Crawford School of Public Policy, Australian National University, Canberra, Australia– Prof. Robert Costanza.

A MU has been signed and student internships are agreed upon.

APPENDIX 3

Sept. 2013 - The Michel Serres Institute is one year old. Many happy returns of the day!

This anniversary coincides with the publication of the IPCC report 2013. An article in

Libération (September 28-29, p21)

concludes that "The UN climate convention signed in 1992 yielded no major results; Decisions are guided by the economy".

Why the climate of political hypocrisy does not change? Most likely because present

conventions (climate, biodiversity, energy...) are designed to be sterile. As long as the central issue of accessing, managing and re-adjusting natural resources at all

governance scales will not hit the great political agendas.

APPENDIX 4

PHD and Internships dedicated to resource problematic

Additional activities will start early 2014 at the IAO and EVS labs on environmental indicators and water management and footprint issues.

PhD Thesis 2013-2016 – Frédéric Ducarme, "co-tutelle" MNHN / ENS (on "ordinary biodiversity" and HANPP (Human Appropriation of Net Primary Productivity).

Title: Biodiversité et services écosystémiques : vers une conciliation de deux approches disciplinaire de l'écologie.

Master degree internships:

(1) Mihaela Enache, Masters degree ADMIRE second year, ENS, « Le partenariat ENS/EPFL dans l'éducation au développement durable: étude d'une approche alternative par le concept des défis globaux ».

Objective: bilateral education program ENS-EPFL

Findings: an inventory of 20 global challenges and occurrence analysis identified resources as the main but cryptic challenge on agendas ranging from institutions to corporate.

(2) Elodie Perrin, Masters 2nd year in philosophy, Sorbonne:

Titre : « Recadrage des rapports homme-nature-ressources par la fonctionnalité des matériaux. L'exemple des terres rares ».

Short title : Culture-technologie-nature et la géopolitique des ressources

Key words: recadrage (reframing) ; rapports homme-nature ; anthropocène / the great acceleration; processus historiques; fonctionnalité des matériaux, ressources naturelles et environnement, terres rares ; cultures, innovations, technologies, mutations/ ruptures; monde occidental et géopolitique.

Expected result: participative platform on the history of resource geo-politics.

A survey is looking into the whys of humans being "strongly resources-centered, but resources wrongly framed".

(3) Alfhred Quillon, M1 BioSciences, ENS), on soil resources and land productivity and footprint

(cooperation with New Zealand, Estelle Dominati at Agresearch centre).

APPENDIX 5

Publication record

Honet C, Negrutiu I (2012) De l'agriculture comme problème à l'agriculture comme solution: des plantes et des hommes. In: Le végétal saisi par le droit (Coordination Dross W), Ed. Bruylant, Bruxelles pp 7-46

F. Collart Dutilleul, 2012, Le végétal et la sécurité alimentaire: approche juridique internationale, In: Le végétal saisi par le droit (Coordination Dross W), Ed. Bruylant, Bruxelles pp 47-64

Negrutiu I, Salles JM (2013) Les ressources: le capital naturel évanescant et le défi démographique, In: Le développement durable à découvert. EdS A Euzen, L Eymard, F Gaill, CNRS Paris, pp68-69.

J.L. Weber, E. Fernandez, C. Malwe, J.M. Salles, F. Collart Dutilleul, I Negrutiu,

2013, A Natural Resource-Systems approach: Targeting the Ecological Transition at Regional Scale (submitted).

Fernandez Fernandez E, Malwé C, « Redrawing existing powers over natural resources for food security at the light of a natural resources constrained world », in Collart Dutilleul F, Bréger T (éd.), Penser une démocratie alimentaire, Vol. I, Inida, San José, 2013, p. 201-210.

Fernandez Fernandez E, Malwé C, entrées « Convention Américaine relative aux Droits de l'Homme » et « Ressources Naturelles », in Collart Dutilleul (François) et Bugnicourt (Jean-Philippe) (éd.), Dictionnaire juridique de la sécurité alimentaire dans le monde, Larcier, Bruxelles, 2013, p. 215-219 y 596-598.

de Bossoreille de Ribou S, Douam F, Hamant O, Frohlich MW, Negrutiu I, 2013, Plant science and agricultural productivity: Why are we hitting the yield ceiling? Plant Science, 210: 159-176.

APPENDIX 6

Seminars, workshops, conferences

- The Michel Serres Institute launch conference, Lyon, Sept 27-28, Lyon Talks of the network partners, Advisory Board members and regional representatives.

- The BioSciences master degree Experimental Workshop – "Sciences co-responsables", "Ethique et Responsabilité Environnementale", I. Negrutiu

- The "Anthropocene Research Forum and project", January 10-13, 2013, Berlin, The IXXI program and "The missing link - a natural resource-systems approach" (Pabblo Jensen and Ioan Negrutiu).

- The CREADD seminar on continuous education, March 5, 2013, Lyon
"An introduction to the resources challenge", I. Negrutiu.
 - The Millenium Objectives conference, March 7, United Nations, Geneva
"Climate, Water, Energy and Environment: the missing link - natural resources", I. Negrutiu
 - IXXI seminar series, Natural capital / Computational sustainability / Environmental modelling
Lyon, April 2nd 2013 (JL Weber and JP Bassino speakers, I. Negrutiu moderator).
 - The Sustainable development education network seminar, Paris, May 17, 2013 "Le capital naturel évanescent et le défi des 8 milliards", I. Negrutiu
 - The preparatory seminar of the "Rencontres de Nantes", May 31, 2013; organized by F. Collart Dutilleul.
"Natural resources, what else? Le capital naturel évanescent et le défi des 8 milliards", I. Negrutiu
 - The European Society of Ecological Economics, June 17-19, Lille
"A Natural Resource-Systems approach: Targeting the Ecological Transition at Regional Scale". I. Negrutiu
 - The governance of slow-developing catastrophic risks, IRGC workshop "Preparing for Future Catastrophes" 27-28 June 2013, Zurich, Organized by EPFL partners (MV Marin, G Escher). "The elusive natural capital & the 8 billion challenge", I. Negrutiu
 - The Envirhonalp seminar, setting guidelines for the next research agenda, July 10, 2013, Lyon "The Michel Serres Institute for resources and public goods: why the regional scale matters", I. Negrutiu.
 - Séminaire NormaSol / Biodiscée "Sols, Propriete(S), Services, Resilience"
26 et 27 septembre 2013, Lyon, organized by the partner IDE Institute, Ph. Billet.
"La bioproduktivité et les sols" Ioan Negrutiu
"Les variétés de propriété du sol", Claire Malwé
 - Conférence - débats grand public sur les biens communs, October 12, 2013, Lyon
« Transitions sociétales et écologiques : ressources et biens communs », I. Negrutiu
 - JECO conference, session "Regards croisés, Resources and the ecological transition", initiated by Ph Frémeaux and organized by the Institut M Serres, Lyon, Nov. 16, 2013 (with the participation of the Veblen Institute, the Collegium de Lyon, and biology students of the ENS).
 - Rencontres internationales, "Penser une démocratie alimentaire" Nantes, Nov 26-28, the 5 year "ERC Lascaux program" report. The Institute acted as a co-organizing partner and several members, Advisory Board included, took part to the program.
- The Michel Serres Institute workshop theme: "Les enjeux écologiques, alimentaires et démographiques de l'exploitation des ressources naturelles". The event is used to strengthen the links between the legal research program in Nantes and the natural sciences program in Lyon.

