



## III INTERNATIONAL ACADEMIC MEETING 2014 ON INTERDISCIPLINARITY IN BRAZILIAN UNIVERSITIES:

### RESULTS & CHALLENGES

13 to 15 May 2014.

#### Explanation

Based on the results of the “International Academic Meeting on Interdisciplinarity” held at CAPES in 2012, FOPROP - the Forum for Deans of Research and Graduate Programs – and CAPES, jointly, assumed the commitment to discuss, propose and establish measures towards contributing to the internalization and institutionalization of interdisciplinarity in the universities, as well as in the funding agencies in the country.

During the year of 2013, all five Brazilian geographic regions organized their own workshops centered on the theme of interdisciplinarity. These meetings have resulted in new contributions to the theme by promoting better understanding, fresh ideas, new developments and innovative practices which will be presented at the International Academic Meeting on Interdisciplinarity in Brazilian Universities: results and challenges, to be held in May, 2014, in Brasília.

The results coming from these regional events demonstrate strong interest for the interdisciplinary approach. However, this increased interest is neither fortuitous nor recent. The changes in the world of work, in the industrial production and in the realm of the sciences and contemporary societies demand that consolidated disciplinary fields come together in order to cooperate, by articulating technologies, concepts, methods and processes so as to be able to create and forward solutions to problems and complex demands that affect human communities and living beings in general. Learning to engage in interdisciplinary projects where autonomy, creativity and cooperation are encouraged shall be part of the upbringing of present and future generations. This tendency raises the following question: how will educational institutions respond to the challenge of this



new world which increasingly incorporates interdisciplinarity into the process of knowledge construction, even when specialized?

The twentieth century witnessed the consolidation of scientific activity and the inauguration of international scientific research networks. At the same time, new problems and issues of planetary order (AIDS, human genome, climate, metropolis, agroindustry, energy, water, economy) brought about profound changes in the way scientific work is organized, particularly with regards to the education of people who will have to deal with this new and challenging world – a world that evades the strict disciplinary design. Science ceases to be governed solely by interests of academic order and increasingly links itself to contexts of knowledge application. This leads to a novelty in the world of the sciences: the need to learn to deal with other knowledge and social actors directly involved with global themes that must be tackled. What is at stake is the question of the usability of the results that evolve from scientific activity and the recovery of the sense of responsibility which is lost every time social issues become so technical that they escape civil debate. Due to all of these changes and demands, education and training for research should develop new answers, and it is within such debate, capable of broadening the understanding of the meaning of interdisciplinarity, that this community engages itself at present.

## Objectives

- Identify the **advances and challenges in the implementation** of interdisciplinarity in Teaching, Research and Extension, based on the results of the Regional Meetings.
- Propose **strategies and mechanisms for institutionalizing and consolidation** of interdisciplinarity in universities, funding agencies, professional councils and entities of scientific representation.
- Outline the **progress obtained and the prospects** of the contribution of interdisciplinarity to the construction of knowledge, to the academic training of new professional profiles, and to the social inclusion of the universities.



## PROGRAM

Day 1 - 13 May 2014

### Morning

**8:30 a.m. to 9:00 a.m - Accreditation**

**9:00 a.m. to 9:30 a.m - Opening**

#### **Authorities invited:**

Minister of Education, Minister of Science, Technology and Innovation, President of CAPES, President of FOPROP; President of CNPq, President of FINEP, President of CNE, MCTI-Secretaries, MEC-Secretaries, President of CONSED; President of CONFAP; All associations involving universities; Federation of Professional Associations; SBPC, ABC; Coimbra Group of Brazilian Universities (GCUB)

**9:30a.m. to 11:00a.m - Panel I**

**Theme:** Results and Referrals of Regional Meetings and ENPROP

**Panelist:** Paulo Cesar Duque Estrada (PUC-RJ/FOPROP)

**Debaters:** Coordinators of regional events - Emmanuel Zagury Tourinho (UFPA/North); Divina das Dores Paula Cardoso (UFG/Midwest), Joana Maria Pedro (UFSC/South); Carlos Alberto Kamienski (UFABC/ Southeast), Robert Verhine (UFBA/Northeast); Mauro Antonio da Silva Sá Ravagnani (UEM/FOPROP).

**Moderator:** Livio Amaral (DAV/CAPES)

**Rapporteurs:** Clarilza Prado de Souza (PUC-SP/AC Education); Philippe Olivier Alexandre Navaux (UFRGS/AC Computer Science); Rosana Quaresma Maneschky (UFPA/FOPROP)

**10:30 a.m. – 11:00 a. m - Debates**

**11:00 a.m. – 12:30 p.m – Lecture 1**

**Theme:** Institutionalization of interdisciplinarity in universities





- ✓ *How and why does research and graduate study contribute to the introduction and development of interdisciplinary practice in universities?*
- ✓ *What are the principal obstacles to the institutionalization of interdisciplinarity and how should they be met?*
- ✓ *What are the most adequate approaches to flexibilize university structures (physical and academic) in order to reduce the distance between the disciplines and their actors and thereby encourage the practice of interdisciplinarity?*

**Panelist:** Johann Koeppel (TU Berlin)

**Mediator:** Vahan Agopyan (USP)

**Rapporteurs:** Eliane Pereira Zamith Brito (FGV-SP/ AC Administration, Accounting and Tourism); Augusto Schrank (UFRGS/AC Biological Sciences II); Ronaldo Lopes Oliveira (UFBA/FOPROP).

**11:40 a.m. – 12:30 p.m – Debates**

**12:30 p.m. – 14:00 p.m – Lunch**

### Afternoon

**14:00 p. m. – 15:30p.m - Panel II**

**Theme:** Interdisciplinary academic training to professional practice

- ✓ *How can professional boards, universities and the government collectively meet the challenge of including new competency profiles in processes of academic preparation, both for updating existing professions and for the creation of new professions demanded by society?*
- ✓ *How has the principal of university autonomy – which permits curricular revision and course creation (respecting national educational directives) – be conciliated with the role of certification and regulation exercised by professional boards?*
- ✓ *What are the views of Professional Boards and Universities regarding the new profiles of those graduating from interdisciplinary programs? What is the relationship of these profiles to established professions? Do these profiles require a system of professional regulation similar to that utilized by the traditional professions?*

**Panelists:** José Tadeu da Silva (President of CONFEA), Florentino de Araújo Cardoso Filho (President of Brazilian Medical Association) and Helio Waldman (UFABC)

**Mediator:** Ana Maria Santos Cabral ( UFPE/FORGRAD)





**Rapporteurs:** André Luiz Felix Rodacki (UFPR/AC Physical Education); Dulcinéia Saes Parra Abdala (USP/AC Pharmacy); Ronaldo Lopes Oliveira (UFBA/FOPROP)

**14:45p.m. – 15:30p.m - Debates**

**15:30p.m. – 16:00p.m – Coffee Break**

**16:00p.m. – 17:30p.m - Panel III**

**Theme:** Experiments Institutionalizing Interdisciplinarity in education

- ✓ *Explicit difficulties faced in order to institutionalize interdisciplinarity in education and indicate solutions for the challenges presented?*
- ✓ *What conditions need to be brought together in order to delineate and implement these experiences?*
- ✓ *What innovative evaluation mechanisms were adopted in order to accompany these experiences?*

**Panelists:** Naomar de Almeida Filho (UFSB), José Seixas Lourenço (SE-PA) Carmen Moreira de Castro Neves (DEB/CAPES)

**Mediator:** Robert Verhine (UFBA);

**Rapporteurs:** Tania de Araújo Jorge (FIOCRUZ/AC Teaching); Dermeval da Hora Oliveira (UFPB/AC Letters and Linguistics); Fernando Álvaro Ostuni Gauthier (UFSC/FOPROP)

**16:45p.m. – 17:30p.m. – Debates**

**17h30-18h00 – Launches**

-Book “Practice of Interdisciplinarity in Education and Research”

-Brazilian Journal of Postgraduation – RBPG “The postgraduation and sustainable development”

**Day 2 - 14 May 2014**

**Morning**

**8:30a.m. – 10:30a.m - Panel IV**



**Theme:** Interdisciplinarity in research agencies and the entities representing Science

- ✓ *How do funding agencies deal with the issue of interdisciplinarity in their public calls?*
- ✓ *In recent years, how has the importance of interdisciplinarity been addressed by representative scientific entities?*
- ✓ *What are the perspectives for increasing interdisciplinary activities within the purview of funding agencies and of representative entities?*

**Panelists:** Sérgio Luiz Gargioni (CONFAP), Glaucius Oliva (CNPq), Helena B. Nader (SBPC)

**Mediator:** Dora Leal Rosa (UFBA)

**Rapporteurs:** Isabela Almeida Pordeus (UFMG/AC Odontology); Danilo Marcondes de Souza Filho (PUC-RJ/AC Philosophy and Theology); Fausto Miziara (UFG/FOPROP)

**9:30<sup>a</sup>.m. – 10:30a.m. - Debates**

**10:30a.m. – 11:00a.m – Interval**

**11:00a.m. – 12:30p.m - Lecture 2**

**Theme:** Practical interdisciplinarity in international development agencies

- ✓ *What strategies are adopted by international funding agencies to stimulate interdisciplinary research?*
- ✓ *What are the characteristics of specific calls for inducing the formation and consolidation of interinstitutional and interdisciplinary research networks on the international level?*
- ✓ *How is interdisciplinarity evaluated by international funding agencies to finance programs of research, teaching and extension?*

**Panelist:** Soo-Siang Lim (NSF)

**Mediator:** Denise de Menezes Neddermeyer (DRI / CAPES)

**Rapporteurs:** Estevam Barbosa de Las Casas (UFMG/AC Engenharias III); André Luiz Marengo dos Santos (UFRGS/CA Ciência Política e Relações Internacionais); Joviles Vitório Trevisol (UFFS/FOPROP-S)

**11:40a.m – 12:30p.m. - Debates**

**12:30p.m – 14:00p.m - Lunch**

**Afternoon**

**14:00p.m – 15:30p.m - Panel V**

**Theme:** Graduates entering interdisciplinary courses in the world of work

- ✓ *In what way does interdisciplinary preparation contribute to the scientific and professional*



*development of those graduating from interdisciplinary programs?*

- ✓ *What advantages and disadvantages accrue to graduates of interdisciplinary programs in the dispute for labor market space?*
- ✓ *How can the role and importance of professionals who graduate from interdisciplinary programs be characterized and demonstrated to the world of work?*

**Panelists:** Cybele Amado de Oliveira (Plateau Institute of Education and Research), Gabriela Marques Di Giulio (USP), Suely Salgueiro Chacon (UFCA), Luiz Carlos Mior (EPAGRI).

**Mediator:** Luiz Bevilacqua (UFRJ)

**Rapporteurs:** Jacob Carlos Lima (UFSCar/AC Sociology); Maria Beatriz Abreu Glória (UFMG/AC Science and Food Technology); Valdir Fernandes (UP/FOPROP).

**14:40p.m. – 15:30p.m. - Debates**

**15:30p.m. – 16:00p.m. – Coffee Break**

**16:00p.m. – 17:30p.m. - Panel VI**

**Theme:** Interdisciplinary Training for the differential absorption of the professional world of work

- ✓ *What aspects are preferentially observed when contracting workers for firms that seek to be competitive in the national and international market? Do any of these aspects relate to competence for performing work of an interdisciplinary nature?*
- ✓ *What mechanisms exist or could exist in the world of work for stimulating and valuing the interdisciplinary (and continuing) preparation of professionals?*
- ✓ *In what way have educational institutions responded to the demands of the business and government sectors?*

**Panelists:** Tatiana Sá Deane (Embrapa), Roberto Dall’Agnoll (VALE Institute), Wanderley de Souza (INMETRO)

**Mediator:** Tanya Fischer (UFBA/FOPROP).

**Rapporteurs:** Pedro Geraldo Pascutti (CAInter-CAPES), Maria do Carmo Sobral (CACiamb-CAPES ); Fernando Álvaro Ostuni Gauthier (UFSC/FOPROP)

**16:45p.m – 17:30p.m – Debates**

**17:30p.m. – 18:00p.m. - Cultural Moment**

Presentation of Assum Trio

**Day 3 - 15 May 2014**

**Morning**



### 8:30a.m. – 10:30a.m. - Panel VII

**Theme:** Practical interdisciplinarity in groups and research networks

- ✓ *In which fields of knowledge has interdisciplinary research advanced the most? Are there specific reasons for this development?*
- ✓ *What are the advantages and disadvantages of participating in interdisciplinary networks?*
- ✓ *How can research in interdisciplinary networks be articulated with the internationalization of knowledge?*

**Panelists:** Carlos Afonso Nobre (MCTI), Tercio Ambrizzi (USP), José Vicente Tavares dos Santos (ISA -International Sociology Association/CLACSO/ILEA UFRGS)

**Mediator:** Roberto Pacheco (UFSC)

**Rapporteurs:** José Antonio Rocha Gontijo (Unicamp/AC Medicine I); Maria Fátima Grossi de Sá (AC Biotechnology CAPES); Sonia Coutinho (FOPROP)

**9:15 a.m – 10:30a.m – Debates**

### 10:30a.m– 11:00a.m – Interval

### 11:00a.m– 12:30p.m Lecture 3

**Theme:** Practical interdisciplinarity in international research

- ✓ *In what ways has interdisciplinary practice influenced advances in science, technology and innovation in international terms?*
- ✓ *What performance indicators can point to the success of interdisciplinary practice in the international context?*
- ✓ *What mechanisms have been adopted to stimulate the practice of interdisciplinarity in groups and institutions devoted to research and teaching?*

**Panelist:** Claude Raynaut (CNRS-FR)

**Mediator:** Álvaro Toubes Prata (MCTI)

**Rapporteurs:** Carmem Silvan Scochi (USP-Ribeirão Preto/CA Enfermagem); Antônio Virgílio Bittencourt Bastos (UFBA/AC Psychology); Soraia Freitas *Francisco Fernandes* (RBCAmb/FOPROP).

**11:40a.m. – 12:30p.m. – Debates**

### 12:30p.m. – 14:00p.m. - Lunch

### Afternoon

**14:00p.m. – 17:00p.m. - Round Table: Summary of discussions, proposals and referrals.**

Reports of Panels I to VII and Lectures 1- 3 (rapporteurs)

**Mediator:** Arlindo Philippi Jr (USP/ Superior Council of CAPES)

**Rapporteurs:** Talita Moreira de Oliveira (CAPES); Sonia Coutinho (FOPROP)







**17:00p.m. – 17:30p.m. Lecture – Closing**

**Theme:** Appointments PNPG 2011 - 2020: actions taken and results achieved

**Panelist:** Jorge Almeida Guimarães (CAPES)

**Mediator:** Jorge Audy (PUC-RS)

**PROMOTION AND REALIZATION:**

CAPES & FOPROP

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