

## **INTERNATIONAL ACADEMIC MEETING**

### **INTERDISCIPLINARITY AND TRANSDISCIPLINARITY IN EDUCATION**

### **RESEARCH AND EXTENSION IN EDUCATION, THE ENVIRONMENT AND HEALTH**

Brasilia, November 27, 28 and 29, 2012

#### **Reason**

The increasing complexity of a globalized society has led researchers and educators to consider interdisciplinarity

and transdisciplinarity as essential for development and innovation in science, technology and education.

However, the implementation of the above processes in education, research and extension has been challenged by not only the polysemy of the terminology – inter and transdisciplinarity – but also by stiff disciplinary traditions that continue to dominate the respective institutions. The obstacles and limitations facing the implementation of the above approaches are proof of the need to adopt new paradigms and, consequently, cultural changes in the areas of knowledge practices and production.

It is therefore increasingly relevant to broaden studies on the above themes and in particular if we take in consideration the facts that CAPES is in the process of broadening its coordination activities beyond high-level studies and incorporate Basic Education into its areas of activity and that the Ministry of Education advocates interdisciplinarity in Medium Education. Interdisciplinarity and transdisciplinarity must be acknowledged as new tools for the gathering of knowledge within all stages of the educational process.

The Academic Meeting is also in harmony with the current Law of Directives and Basis (9394/96) which foresees the need to organize curriculums beyond traditional subjects and aims at furthering knowledge gathering through inter and transdisciplinary processes. Ideas that concur with the debate on interfaces and transversal problems and themes as a fundamental strategy for studies on historical dynamics and social complexity and their direct relation to current national priorities: education, the environment and health.

#### **Objectives**

- Systematize the debate on the conceptual-theoretical aspects that form the basis for inter and transdisciplinarity such as knowledge production and practice concepts.
- Promote interaction between High-Level Education (graduation and post-graduation) and Basic Education through pedagogical strategies that maximize the appropriation of scientific and technologic knowledge.
- Promote inter and transdisciplinarity as fundamental concepts for the study of complex phenomena in all areas of knowledge and to institutionalize their practice in Brazilian graduation and post-graduation education, research and extension.

## **Program**

### **Day 1: November 27, 2012, Tuesday**

08:30-09:00- Accreditation

9:00-9:30- Opening

Jorge Almeida Guimarães, CAPES President

Authorities invited

Meeting Coordination representative

### **Morning**

#### **9:30-10:30- Lecture One**

**Challenges facing the production of knowledge in the areas of education, research and**

**Moderator:** Denise de Menezes Neddermeyer (DRI/Capes)

**Lecturer:** Luiz Bevilacqua (UFRJ)

**Relator:** João Santana da Silva (CABioIII)

**10:30-12:00-Panel One (3 debaters with each with 30 minutes)**

**Basic foundations of interdisciplinarity and transdisciplinarity in education, research and extension.**

**Moderator:** Arlindo Philippi Jr (USP)

**Lecturers:** Esther Díaz (UNLa/Argentina); Américo Sommerman (UFBA); Patrick Paul (USP)

**Relators:** Danilo Marcondes de Souza Filho (CA Philosophy/Theology) & Philippe Olivier Alexandre Navaux (CACiComp)

**12:00-12:30–Debate**

**12:30–14:00– Lunch**

**Afternoon**

**14:00–15:30–Panel Two (3 debaters with each with 30 minutes)**

**Experiences gathered from inter and transdisciplinary practices in education, research and extension.**

**Moderator:** Adelaide Faljoni-Alario (UFABC)

**Lecturer(s):** Johann Koeppel (TU Berlin/ Germany); Teresinha Froes Burnham (UFBA); Pedro Geraldo Pascutti (CA Inter);

**Relators:** Lydia Masako Ferreira (CA Medicine III) & Antonio Virgílio Bittencourt Bastos (CA Psychology)

**15:30–16:00–Debate**

**16:00–16:30–Intermission**

**16:30–18h00-Lecture Two**

**Challenges facing the incorporation of inter and transdisciplinarity practices in Education**

**Moderator:** Carmen Moreira de Castro Neves (DEB/CAPES)

**Lecturer:** Ives Lenoir (Sherbrooke University/Canada);

**Relators:** Berenice Rojas Couto (CA Social Services)

**18:00–18h30-Cultural moment**

(16:30 – 18:00 – Relator meeting – Relator synthesis – Panels One and Two, Lectures One and Two)

**Day Two: November 28, 2012, Wednesday**

**Morning**

**08:30–10:00–Panel Three** (3 debaters with each with 30 minutes)

**Inter and transdisciplinarity in High-Level Education (Graduation and Post-Graduation) and in Basic Education**

**Moderator:** Clarilza Prado de Sousa (CAEducation)

**Lecturers:** Betânia Leite Ramalho (UFRN/SEE-RN); Alice Ribeiro Casimiro Lopes (UERJ)  
Terezinha Nunes (Oxford University/England )

**Relators:** Antonia Pereira Bezerra (CAArts) & Sylvio Roberto Accioly Navaux (CAPhysics)

**10:00-10:30 - Debate**

**10:30-12:00–Panel Four** (3 debaters with each with 30 minutes)

**Experiences gathered from inter and transdisciplinary practices in Education Teaching, research and extension.**

**Moderator:** João Carlos Teatini (DED/CAPES)

**Lecturers:** Margarete Axt (UFRGS); Eduardo Fleury Mortimer (UFMG); Itana Stiubiener (UFABC)

**Relators:** Leda Quercia Vieira (CABiological Science II) & Eliane Pereira Zamith Brito (CAAdmTur)

**12:00-12:30 - Debate**

**12:30-14:00 - Lunch**

## **Afternoon**

**14:00-15:30-Panel Five** (3 debaters with each with 30 minutes)

**Inter and transdisciplinary practices in Environmental education, research and extension: from theory to practice.**

**Coordinator:** Maria do Carmo Martins Sobral (CACiAmb)

**Lecturers:** Maria Manuela Moraes (Évora University/Portugal), Reynaldo Victoria (USP); Seixas Lourenço (UFOPA)

**Relators:** Ângela Maria Gordilho Souza (UFBA) (Assistant CAArchitecture and Urbanism) & Ney Yoshihiro Soma (CAEngineering III)

**15:30-16:00-Debate**

**16:00–16:30-Intermission**

**16:30–17:30– Lecture Three**

**Inter and transdisciplinaryty and a teaching, research and extension concept**

**Lecturer:** Ivan Domingues (UFMG)

**Moderator:** Paulo Sérgio Lacerda Beirão (CNPq)

**Relator:** Nancy Lopes Garcia (CAMathematics,Probability, Statistics)

**17:30-18:00-Debate**

**18:00-18:30** - Contribution two scientific periodicals not to interdisciplinaridade and transdisciplinaridade in education teaching, research and extension.

(16:30–18:00– Relator synthesis–Panels Three, Four and Five and Lecture Three)

**Day Three: November 29, 2012, Thursday**

## **Morning**

**08:30-10:00-Panel Six** (3 debaters with each with 30 minutes)

**Inter and transdisciplinarity in Health teaching, research and extension: from theory to practice**

**Moderator:** Rita de Cássia Barradas Barata (CASAúde Coletiva)

**Lecturers:** Gilles Bibeau (University of Montreal/CAN); Enrique Leff (UNAM/México); Naomar Monteiro de Almeida Filho (UFBA)

**Relators:** Maria Fátima Grossi de Sá (CABiotechnology) & Carlos Frederico de Oliveira Graeff (CAMaterials)

**10:00-10:30-Debate**

**10:30–12:00–Round Table One** (Capes Area Coordinators)

**Incorporation of inter and transdisciplinary practices in the assessment processes of the National Post-Graduation System**

**Moderator:** Livio Amaral (CAPES)

**Testimonials:** Adelaide Faljoni-Alario (CAInter); Clarilza Prado de Souza (CAEducation); Maria do Carmo Martins Sobral (CACiAmb); Rita de Cássia Barradas Barata (CACollective Health)

**Relators:** José Antonio da Rocha Gontijo (CAMedicine I); Antonio Marcus Nogueira Lima (CAEngineering IV)

**12:00–12:30-Debate**

(12h30–14h00–Relator synthesis–Panel Four VI and Round Table One)

**12:30-14:00 - Lunch**

**Afternoon**

**14:00 - 16:30 - Round Table Two**

**Moderator:** Arlindo Philippi Jr (USP/Capes High-Council)

**Relators:** Marcelo Tabarelli (CABiodiversity) & Dulcinéia Saes Parra Abdala (CAPHarmacy)

- **Contributions by the scientific community: Synthesis of Panels One to Six**

**Testimonials:** Panel Moderators

- **Perspectives related to the integration of Inter and Transdisciplinarity in teaching, research and extension practices.**

**Testimonials:** Livio Amaral (Capes); Guilherme Melo (CNPq); Amaro Lins (SESU); Cesar Callegari (SEB); José Fernandes de Lima (CNE);

### **16:30-17:00-Referrals and Closing: (list of participants)**

Promoted and Produced by: CAPES

#### **Target Group:**

Coordinators and Assistants of the 48 Capes Post-Graduation Assessment Areas plus, Coordinators of Post-Graduation Programs, Post-Graduation and Research Pro-Principals, Principals, CA and CNPq Coordinators, Members of the CAPES Council

#### **COORDINATION COMMISSION**

Arlindo Philippi Junior (USP), Adviser to the Superior Council of CAPES; Adelaide Faljoni-Alario (UFABC), Assistant Coordinator of the Interdisciplinary Area; Clarilza Prado de Sousa (PUC-SP, FCC), Coordinator of the Education Area; Livio Amaral (CAPES); Maria do Carmo Martins Sobral (UFPE), Coordinator of the Environmental Sciences Area; Rita de Cássia Barradas Barata (FCMSCSP), Coordinator of the Collective Health Area; Sandra Fátima Amaral da Cunha (CAPES)

#### **SCIENTIFIC COMMITTEE**

Américo Sommerman (USP); Ângela Maria Gordilho Souza (CAArchitecture and Urbanism); Antonia Pereira Bezerra (CAArts); Antonio Marcus Nogueira Lima (CAEngineering IV); Antonio Virgílio Bittencourt Bastos (CAPsychology); Ariane Franco Silva (FCC); Augusta Thereza de Alvarenga (USP); Berenice Rojas Couto (CASocial Services); Carlos Frederico Graeff (CAMaterials); Carmen Fontes Teixeira (UFBA); Danilo Marcondes de Souza Filho (CAPHilosophy/Theology); Dulcinéia Saes Parra Abdala (CAPHarmacy); Eliane Zamith Brito (CAAdmTur); Fernanda Carla Pantaleão (UFABC); Joana Maria Pedro (UFSC); Ivani Fazenda (PUC/SP); João Santana da Silva (CABioIII); José Antonio da Rocha Gontijo (CAMedicine I); Leda Quercia Vieira (CABiologicalSciencesII); Lúcia Pintor Santiso Villas Bôas (Methodist University and FCC); Lydia Masako Ferreira (CAMedicine III); Maria Fátima Grossi de Sá (CABiotechnology); Marcelo Tabarelli (CABiodiversity)); Nancy Lopes Garcia (CAMathematics, Probability, Statistics); Naomar Monteiro de Almeida Filho (UFBA) Adviser to the Superior Council of CAPES; Ney Yoshihiro Soma (CA Engineering III); Philippe Olivier Alexandre Navaux (CACiComp); Renata Maria Caminha Mendes de Oliveira Carvalho (IFPE);

Sônia Maria Viggiani Coutinho (USP); Sylvio Roberto Accioly (CA Physics); Vânia Gomes Zuin (UFSCAR).

**SUPPORT COMMISSION**

Adriana Siqueira (CAPES); Fabiana Santos (CAPES); Juliana Pellegrini Cezare (USP) .