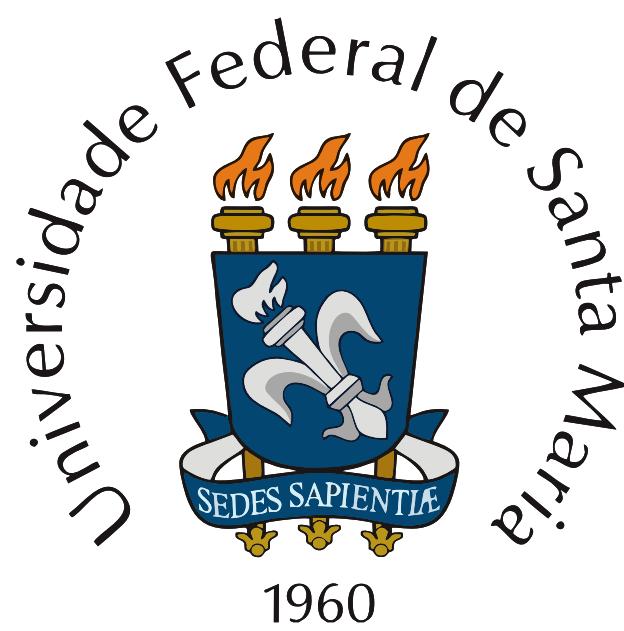


**IV Seminar on Catchment Monitoring  
and Assessment of the Southern Cone**

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**III Forum of Geo-Bio-Hydrology**



In 2012, 2013 and 2014, was held the Seminar on the Impacts of Agriculture on Water Resources and in 2014 concomitantly also the II Forum of Geo-Bio-Hydrology. The purpose of these meetings was to integrate research groups who use the catchment as study unit and explore techniques of environmental monitoring and mathematical modeling. The activities involved presentations of the research carried out by each group, highlighting the different monitoring and modeling strategies to understand the hydrological dynamics and associated processes (water quality, erosion, sediment yield, productivity, etc.).

In 2018 we will be again organizing the meeting with the expectation of bringing together research groups not only from Southern Brazil, but from all the Southern Cone (regions in South America that are around and south of the Tropic of Capricorn). The event will focus again on studies in river basins that address different but complementary strategies, such as:

- *tracing and tracking techniques*
- *hydrosedimentometry*
- *scale effect*
- *environmental monitoring*
- *effects of land use and management on hydrological components*
- *modeling the production of sediments*

## Activities

In the first two days (26 & 27) the different groups will present their research to the mutual knowledge of the participants. In these two days there will be also lectures on key aspects of Catchment Monitoring and Assessment. There are 21 groups confirmed from different regions of Brazil, Uruguay, Argentina, France and the USA. At the end of each day we will compile ideas and strategies for referrals (protocols, cooperation networks, ...)

The attendees are encouraged to present in English or at least prepare their PowerPoint presentations in English in order to help understanding among groups of different countries.

On the third day there will be a trip to the Arvorezinha experimental basin. In this activity we will visualize in the field strategies of monitoring in different scales. Departure will be at 7am and expected return at 9pm (limited vacancies).

On the fourth day there will be a modeling workshop with prof. Dr. Olivier Cerdan (BRGM - France) on the model WATERSED.

On the fifth day there will be various workshops according to the interest of the participants. Suggested themes (and models) are: Fingerprinting, SWAT and LISEM.

## Objectives

1. Integration of knowledge on pedology, hydrology, sedimentology, geomorphology, ecology, among others, in soil and water management.
2. Improve the understanding of soil and water degradation processes from erosion on the basin scale.
3. Discuss environmental monitoring strategies at different scales and conditions.
4. Encourage the integration of research groups for the development of networking in the Southern Cone.

## Target Audience

Researchers, professors and students interested in environmental monitoring and modeling in watersheds

## *Important information*

- Presentations should be planned for 20 minutes only;
- Posters with additional information are welcome;
- Presentations slides must be in English;
- Each group will make an expanded summary of 3 to 5-pages including figures and tables;
- For those who wish to receive a certificate, we will be consider only the presence in the first two days. In this case, participation in workshops and travel is optional and by adhesion.

*e-mail*



catchment.monitoring.seminar@gmail.com

*subscription*



<https://goo.gl/a3LjbR>

# ORGANIZING COMMITTEE

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*UFSM*

Jean Minella | Daniel Allasia | Rutinéia Tassi

*UFRGS*

Masato Kobiyana | Gean Michel | Claudia Barros | Tales Tiecher

*CNRS* (France)

Olivier Evrard

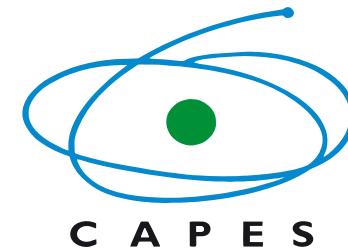
## PROGRAMME - NOVEMBER, 2018

Day	26	27	28	29	30
07:00-8:00	Registrations				
08:00-09:00	Lecture: Mario Mendiondo (EESC-USP)	Lecture: Fernando Meirelles (Dept. de Recursos Hídricos do RS)			
09:00-09:30	Karla Campagnolo e Gean Michel UFRGS - IPH	Yuri Jacques	UFPI - Solos		
09:30-10:00	Sílvio Luís Rafaeli Neto UDESC-Ambiental	María G. Ares	UN Buenos Aires (AR)		
10:00-10:30	Edivaldo Thomaz UNICENTRO - Geog	José Miguel Reichert	UFSM - Solos		
10:30-11:00	Interval	Interval			
11:00-11:30	Tales e Danilo UFSM e UFRGS - Solos	Paulo Tarso	UFMS - Eng. Amb.		
11:30-12:00	Olivier Evrard CNRS-LSCE (FR)	Pedro Chaffe	UFSC - Eng. Amb		
12:00-12:30	Olivier Cerdan BRGM (FR)	Gilberto Collares	UFPEL-Eng. Hídrica		
12:30-14:00	Lunch	Lunch		Lunch	Lunch
14:00-14:30	Daniel Allasia e Ruti Tassi UFSM - Eng. Amb.	Gustavo Merten	Univ. Minnesota Duluth		
14:30-15:00	Latif Kalin Auburn University (EUA)	Graziela Barboza e André Pellegrini	IAPAR e UFTPR		
15:00-15:30	Nilza Castro UFRGS - IPH	Silvio Ferraz e Lara Garcia	USP - LCF		
15:30-16:00	Interval	Interval			
16:00-16:30	Marcos Tassano (UR)	Irani dos Santos	UFPR - Geog		
16:30-17:00	Eberval Marchioro UFES	Fabrício Sutili	UFSM - Eng Florestal		
17:00-18:00	Jean Minella e Cláudia Barros UFSM e UFRGS - Solos	Brainstorming			
19:00					Confraternization

Visit to the experimental catchments

Workshop	Subject	Organizer
I	Runoff and Erosion Modeling with WATE	Olivier Cerdan
II	Modeling with SWAT.	Latif Kalin and Daniel Allasia
III	Fingerprinting (Sediment Source Identification)	Tales Tiecher and Olivier Evrard
IV	Modeling with LISIM.	Jean Minella and Cláudia Barros

## *Sponsorship*



## *Support*

