



## **First Circular**

### **7th IAGA/ICMA/CAWSES Workshop on Long-Term Changes and Trends in the Atmosphere**

**11-14 September, 2012  
Buenos Aires, Argentina  
([www1.herrera.unt.edu.ar/faceyt/trends2012/](http://www1.herrera.unt.edu.ar/faceyt/trends2012/))**

The 7th IAGA/ICMA/CAWSES International Workshop on “Long-Term Changes and Trends in the Atmosphere” will be held in Buenos Aires, Argentina, during September 11-14, 2012. Buenos Aires is the capital of Argentina located in South America, on the shore of the Rio de la Plata. Organizing Committees of the workshop cordially invites you to participate and submit your research work. This workshop is 7<sup>th</sup> in a series of workshop organized by the IAGA Working Group II.F on TRENDS in association with ICMA (IAMAS) and CAWSES.

#### **• Host City**

This workshop is organized in the beautiful city of Buenos Aires; a cosmopolitan city and a top tourist destination, known for its European style architecture and rich cultural life. The city, with 3 million habitants, has 48 neighborhoods. In each one there are bars, squares, football and other sports fields, temples, "milongas" and theatres, but the most visited zones are Puerto Madero, San Telmo, Recoleta, Palermo, La Boca, and the downtown avenues. Buenos Aires is one of the main cultural poles of the continent. It is recognized by the variety and quality of cultural events, museums and exciting exhibitions and collections. Tango, music and dance, can be met at the most sophisticated "tanguerias" or the popular "milongas". With plenty of restaurants, eating in Buenos Aires is a question of choosing where and what, from the typical "asado" to foods of the several communities that settled in the city during centuries of immigration. Another feature that attracts locals and visitors alike is shopping, with exhibitions, open-air commercial circuits and shopping malls. The transport system in Buenos Aires has multiple options: subways (subtes), buses, train, and taxis. You can also ride alone and on foot or with expert guides on stories and details; you can dedicate months to Buenos Aires or learn the essentials in a few days, even experience Buenos Aires in just 24 hours; you can leave with the desire to return again.

#### **• Important Dates**

Deadline for Abstract Submission:	June 25, 2012
Deadline for Financial Support Application:	June 25, 2012
Decision about Financial Support:	July 10, 2012
Communication of Abstract Acceptance:	July 10, 2012

- **Workshop Website**  
www1.herrera.unt.edu.ar/faceyt/trends2012/

- **Host Institute**

University of CEMA, UCEMA  
(CEMA: Centro de Estudios Macroeconómicos de Argentina – Center of Macroeconomic Studies of Argentina)  
Reconquista 775, C1054AAP, Ciudad de Buenos Aires, Argentina  
<http://www.ucema.edu.ar/>

- **Venue**

The workshop will be held at the University of CEMA (UCEMA, [www.ucema.edu.ar](http://www.ucema.edu.ar)), Buenos Aires, Argentina, during September 11-14, 2012. The UCEMA is located in the downtown of the city: Reconquista 775, close to the intersection of Cordoba and Leandro Alem avenues. Its location, right in the heart of the city, allows quick and direct access from every point of Buenos Aires city.



UCEMA building of Reconquista 775, located in downtown Buenos Aires, at the heart of the financial and cultural activity of the country

## Organizers

- **Scientific Organizing Committee**

Gufran Beig, *India* (beig@tropmet.res.in) -Chairman  
Jan Lastovicka, *Czech Republic* (jla@ufa.cas.cz)  
Dan Marsh, *USA* (marsh@ucar.edu)  
John Emmert, *USA* (john.emmert@nrl.navy.mil)  
Christoph Jacobi, *Germany* (jacobi@rz.uni-leipzig.de)  
Liyang Qian, *USA* (lqian@ucar.edu)  
Ana G. Elias, *Argentina* (aelias@herrera.unt.edu.ar) -Convener

- **Local Organizing Committee (LOC)**

Ana G. Elias, *Argentina* (aelias@herrera.unt.edu.ar)  
Marta Zossi, *Argentina* (mzossi@herrera.unt.edu.ar)  
Teresita Heredia, *Argentina* (theredia@herrera.unt.edu.ar)  
Patricia M. Fernandez, *Argentina* (pfernandez@herrera.unt.edu.ar)

- **Local Contact**

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- **Workshop Focus**

Long-term changes in Earth's atmosphere are becoming more and more relevant to the future of our world and it is paramount that we quantify and understand changes occurring at all levels within the coupled atmospheric system. The increasing concentration of greenhouse gases, stratospheric ozone depletion, varying solar and geomagnetic activity, secular change of Earth's magnetic field, and changing dynamics propagating up from the troposphere are some of the possible causes of long-term changes in the stratosphere, mesosphere, thermosphere and ionosphere. The goals of this workshop are to review the current state of knowledge about trends in these atmospheric regions, and to discuss what research is necessary for resolving inconsistencies, reducing uncertainties, and achieving a deeper understanding of middle and upper atmospheric climate change - especially the relative influences of anthropogenic and solar effects.

- **Call for Abstract**

Abstracts are invited under the following themes of the conference. Both oral & poster presentations are welcome. The abstract submission is now open & will close on June 25, 2012. Organizing committee welcome scientists from all around the world, to submit an abstract related to one of the conference themes listed below.

1. New insight from satellite data (e.g., TIMED, OMI, etc.) and international collaborations (e.g., NDMC, CAUSES Activities, etc.)
2. New statistical approaches in trend detection: nonlinearities, discontinuities, and uncertainties
3. Gravity waves and changing climate
4. Influence of tropospheric and stratospheric trends on upper atmospheric climate
5. Drivers of trends and trends in middle and upper atmospheric dynamical parameters
6. Emerging trends in the mesosphere, including NLC/PMCs
7. Attribution of trends in the thermosphere and ionosphere (including trends in irregularities and turbulence) to anthropogenic forcing, geomagnetism, and solar climate
8. Whole-atmosphere climate change: Impacts, adaptation, mitigation, and geo-engineering

We also welcome papers using all types of observational techniques to determine the long-term changes and trends that have occurred in the past and also to determine the processes behind those changes. We also welcome contributions which consider the availability, quality and acquisition of various data sets which may be exploited for trend studies, and statistical methods for deriving and validating those trends. Interpretation and attribution of observational results depends heavily on theoretical models and numerical simulations of the trends, and presentations dealing with these topics are particularly welcome. While the troposphere is not the main focus of the workshop, it is clear that it has a major role to play in middle and upper atmosphere trends; papers that demonstrate this relevance are also welcome.

### ❖ **Submission Information**

Abstract submission should be made by e-mail to any of the following e-mail: aelias@herrera.unt.edu.ar or anagelias@yahoo.com

While sending the abstract e-mail, write “TREND 2012 Abstract” in the Subject

Acceptance Intimation will be made by July 10, 2012.

### ❖ **Abstract Format**

The requested abstract file format is a Word document (.doc). Times New Roman and 12 letter size, and left-justification are recommended.

The abstracts should be prepared in the following format:

\*ABSTRACT TITLE IN CAPITAL LETTERS, left justified and leave a blank line after this.

\*Name(s) of Author(s): Left justified, the First Name and the Last (Family) Name of the Author WHO WILL PRESENT THE PAPER should be in capital letters.

\*Affiliation(s) of the Author(s). In case of multiple affiliations, the number that corresponds to the proper affiliation should be shown after each name. Leave a blank line after the last affiliation.

\*Text of Abstract: Left justified, do not indent paragraphs, single line spacing, Below the abstract leave a blank line.

\*Please provide the following information (in the same abstract Word file, after the abstract text):

1. Keywords (1–3)
2. Name, address and e-mail of the corresponding author
3. Type of presentation preferred (oral or poster)
4. Are you applying for a financial support? YES or NO

## • **Registration Information**

All participants should register by filling in the personal details of the Registration Form, available at workshop website: <http://www1.herrera.unt.edu.ar/faceyt/trends2012/>

E-mail the filled Registration Form to: [aelias@herrera.unt.edu.ar](mailto:aelias@herrera.unt.edu.ar) or [anagelias@yahoo.com](mailto:anagelias@yahoo.com)

The registration process is finished once you receive a confirmation mail.

## • **Registration Fee:**

<b>Category</b>	<b>Registration Fee</b>
Regular participant	170 U\$\$
Young Scientist <sup>2</sup>	120 U\$\$
Students <sup>2</sup>	120 U\$\$
Accompanying Person	100 U\$\$

- ❖ The registration fee must be paid at the Workshop. It can be paid in US dollars (U\$\$) or the equivalent in Argentine pesos (\$). Approximately 1 U\$\$ = 4.40 \$, but it can fluctuate.
- ❖ Registration fee for workshop participants (regular and young scientist/student) include: participation in all sessions, conference folder with printed Programme Book including Abstracts, welcome dinner, city tour.
- ❖ Category of young scientists and students has an age limit: 35 years (Age varification should be certified by supervisor)

## • **Financial Support**

We strongly encourage the applicant to secure the financial support from national /institutional resources. However, partial travel grants will be provided to support participation of students, early career scientists, scientists from developing countries or scientists from a country whose economy is in transition. These scientists must submit the abstract as lead author. All grant requests should be accompanied by a short Curriculum Vitae (max 2 page) indicating the scientific motivation and expected benefits. Successful applicants will be notified on the result of the selection process by early July 2012. Request for grant should be send to the Local Organizing Committee by e-mail to: [aelias@herrera.unt.edu.ar](mailto:aelias@herrera.unt.edu.ar) or [anagelias@yahoo.com](mailto:anagelias@yahoo.com), with the subject: "Trend 2012, application for grant".

## • **Social Events (Tentative)**

- ❖ 11 September, 2012 (Evening) : Welcome reception dinner with Tango show
- ❖ 13 September, 2012 (Afternoon): Site seeing Tour to Buenos Aires by Bus

Detailed information on guided tours and accompanying persons programs will be available at the Information desk at the Workshop.

- **Previous Workshops on TRENDS**

- ❖ 1999, Pune, India
- ❖ 2001, Prague, Czech Republic
- ❖ 2004, Sozopol, Bulgaria
- ❖ 2006, Sodankyla, Finland
- ❖ 2008, Saint Petersburg, Russia
- ❖ 2010, Boulder, Colorado, USA

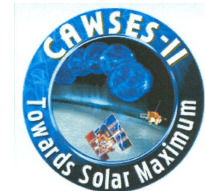
- **Sponsors**



International Association of Geomagnetism and Aeronomy



International Commission on the Middle Atmosphere



Climate and Weather in the Sun-Earth System



Scientific Committee for Solar-Terrestrial Physics



UCEMA  
Universidad del Centro de Estudios Macroeconómicos de Argentina



UNT  
Universidad Nacional de Tucumán



Facultad de Ciencias Exactas y Tecnología



Consejo Nacional de Investigaciones Científicas y Técnicas



Agencia Nacional de Promoción Científica y Tecnológica de Argentina

