



## COAA e-News. Issue 24. July 12, 2006

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Members please submit news to [coaanews@coaaweb.org](mailto:coaanews@coaaweb.org) to be published in future COAA e-News. Some examples of news items are:

Meeting/conference report/announcement;  
Research work/activity;  
Honors/Award /research grant;  
Promotion/graduation/change of position;  
Employment/sabbatical;  
Latest publication/abstract;  
Job/research grant opportunity;  
Visit/exchange/collaboration;  
New member;Community outreach;  
Social event.

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### (1) Life-long Accomplishments of Professor Hsiao-Lan Kuo: an Obituary

Prof. Hsiao-Lan Kuo passed away in early May 2006. He has been an exemplarily teacher, distinguished researcher, and has made significant contributions to the community at large and to the Chinese-American community, in particular.

As one of the early students from China, his distinguished career exemplifies the hard work and triumphs of his peers. Shortly after the second world-war, he went to

the University of Chicago and obtained his PhD in meteorology in 1948 under the supervision of Prof. C-G. Rossby.

He published his thesis on the barotropic instability in the Journal of Meteorology (now the Journal of Atmospheric Sciences), which is the milestone in atmospheric dynamics. From 1949 to 1961, Dr. Kuo worked on the Hurricane Project at the Massachusetts Institute of Technology, first as a research associate, then senior specialist, and eventually as project director. While at MIT, he studied the internal mechanics of hurricanes, mathematically describing the energy requirements that sustain their movement and feed the intense pattern of circulation around the eye of the storms.

In 1962, Dr. Kuo returned to the University of Chicago to join the faculty of the newly formed Department of Geophysical Sciences. In 1970 he obtained the Rossby award from the American Meteorological Society “for his fundamental research in atmospheric dynamics, beginning with his thesis on the stability of barotropic flow and continuous on the general circulation, the theory of hurricane formation, thermal convection, interaction of the atmosphere with the earth’s surface, and many other topics of great importance.’

He was among the first American scientists to actively renew exchanges with China, as new opportunities for collaboration emerged in the late 1970s and early 1980s. In 1979, he taught a two-month course on Atmospheric Dynamics at the newly established graduate school of the Chinese Academy of Sciences with more than 300 students (all over China) attending his class. His lecture notes was published as the text book in Chinese by Jiangsu Scientific Publishing Company entitled “Atmospheric Dynamics”, which is the most popular text book in meteorology for upper undergraduate and graduate students in China.

During that period, he sponsored several research scientists from China such as Professor Yongfu Qian from the Chinese Academy of Sciences (now at the Department of Atmospheric Sciences, Nanjing University), and Professor Yue-Quan Chen from the China University of Science and Technology. Collaborating with Chinese scientists, Professor Kuo developed a numerical weather prediction model. He provided research assistantship to his student, Peter Chu, who was the first student of the University of Chicago coming from China since 1949.

In 1980s especially after his retirement in 1985, Prof. Kuo was working on the general circulation and climate dynamics especially a new theory about ENSO and the partitions of the Hadley and Walker circulations.

Among many other distinguished honors, Prof. Kuo is an ardent supporter of the Chinese-American Oceanic and Atmospheric Association (COAA). The community has lost a good friend and a guiding light. He will be sorely missed.

Peter Chu and Long Chiu  
On behalf of COAA

## (2) COAA 2006 Spring Workshop

COAA 2006 Spring Workshop was held successfully in Department of Atmospheric and Oceanic Science, UMCP, May 20<sup>th</sup> 2006, 9:45 am – 5:30 pm. This workshop aims to exchange scientific ideas and research results, to socialize with other COAA members in a friendly and stimulating environment, and to promote the research achievements of young scientists for their future career development. Fifty scientists, professionals, and students from universities, research institutions, government agencies, and hi-tech industries attended the workshop. Sixteen invited speakers gave oral presentations. Two presentations titled “Application of local ensemble transform Kalman Filter to the NASA finite volume GCM” by Hong Li, and “Observation of small-scale processes over shelf break in the East China Sea” by Lei Zhou were voted as excellent presentations. Both awardees are from University of Maryland, College Park. Each awardee will receive a citation issued by COAA and \$250 travel allowance for COAA 2007 international conference to be held in China. Following is the agenda.

9:45-10:00am: Open remarks (15 minutes, Henry Juang)

Morning Session (Presiding: Quanan Zheng, Session Chairs (below \*) will vote for the 2 best papers)

10:00-10:20am: Hai-Tien Lee  
Development of HIRS OLR Climate Data Record

10:20-10:40am: Jun Wang  
Numerical Accuracy of the Regional Spectral Method used in NCEP RSM

10:40-11:00am: Yang Hong  
Towards a Quasi-Global Space-borne Flood and Landslide Detection and Monitoring System

11:00-11:20am: Yong Chen  
Application of 3D Solar Radiative Transfer to Mountains

11:20-11:40am: Menglin Jin

MODIS Observed Seasonal and Interannual Variations of Atmospheric Conditions Over Cold Land: Tibetan Plateau and Greenland

11:40-12:00am: Chuan Li

A Short Introduction of Surface Radiation Budget(SRB) Data of NOAA/NESDIS and Some Validation and Comparison Results

12:00-12:20am: Qing Xu

Application of a Variational Adjoint Assimilation Method in a Marine Ecosystem Model

Lunch Break: 12:20-1:20pm

Afternoon Session I (Presiding: Menglin Jin, session chairs see below)

1:20-1:40pm: Qingfeng Zhang

The change and prediction of soil erosion

1:40-2:00pm: Donglian Sun

Climate variations, Anomalous Warm Gulf Waters, and Hurricane Katrina

2:00-2:20pm: Likun Wang

Intercalibration of HIRS Using AIRS Radiance Measurements from Simultaneous Nadir Overpass Observations

2:20-2:40pm: Lei Zhou

Observation of small-scale processes over shelf break in the East China Sea

2:40-3:00pm: Hong Li

Application of Local Ensemble Transform Kalman Filter to the NASA finite volume GCM

Coffee Break 3:00-3:10pm

Afternoon Session II (Presiding: Eric Nie, Session Chairs see below)

3:10-3:30pm: Can Li

In-Situ Measurements of Trace Gases and Aerosol Optical Properties at a Rural Site in Northern China during EAST-AIRE IFC 2005

3:30-3:50pm: Yapin Li

Simulated Microphysical Graupel Budget for the Kwajalein MCS of 11-12 August 1999 and Sensitivity Studies

3:50-4:10pm: Zhong Liu  
Giovanni

4:10-4:30pm: S. C. Ling  
Storms as the Redulator of Air-Sea Temperature

4:30-5:30pm COAA Business Meeting  
Report of COAA 2007 International Ocean and Climate Workshop at China  
Report of Tax and financial status of COAA  
Discussion of COAA Bylaw Change

6:15pm- Dinner at Seven Seas

\* Chairs: Dalin Zhang, Ed Shih, and Xiaofeng Li .

### (3) News from the Board

#### (3.1) COAA Board Meeting Minutes (July 6 2006)

(Recorded by Likun Wang)

Called by Long Chiu, a COAA board meeting was held in the Seven Sea restaurant, College Park, MD at 6:00pm-8:00pm on July 7 2006. All the Board members attended, including Long Chiu, Henry Juang, Likun Wang, Sarah Lu, Quanan Zheng, Menglin Jin, Zeng-Zhen Hu, Eric Nie, and Kwo-Sen Kuo. Below is a summary of the meeting outcome.

1) The board approved that the COAA would cosponsor the summer workshop on climate change in Beijing organized by Dr. Ning Zeng. The COAA responsibilities will include distributing the workshop news and inviting senior members as the workshop speakers.

2) As the organizer of the 2006 COAA spring workshop, Menglin and Quanan briefed the workshop to the board. About fifty scientists, professionals, and students from universities, research institutions, government agencies, and hi-tech industries attended the workshop. Sixteen invited speakers gave oral presentations. Two presentations titled "Application of local ensemble transform Kalman Filter to the NASA finite volume GCM" by Hong Li, and "Observation of small-scale processes over shelf break in the East China Sea" by Lei Zhou were voted as excellent presentations and awarded the Outstanding Paper Awards. Both awardees are from University of Maryland, College Park. Each awardee will obtain a citation issued by COAA and \$250 travel allowance for attending COAA 2007 international conference to be held in China. Sarah will be responsible for certificate for these two awardees.

3) All the board members agreed that the COAA annual meeting would be held at University of Maryland on September 30, 2006. Another board meeting will be given to discuss the details.

4) The COAA will hold a farewell party for Dr. Norden Huang - the COAA previous president - around last week of August. Kwo-Sen and Menglin will contact Dr. Norden Huang to decide the specific date.

5) Working with Sarah, Eric will implement on-line payment method for membership renewal and donation.

### **(3.2) COAA membership status**

A recent head count showed that COAA now has around 400 members total (new members registered in spring workshop of 2006 has not been included). There are 43 members from Asia, including China mainland, Taiwan, Hong Kong, Japan and Korea; 4 members from Canada; and 6 members from Europe, including Germany, France, UK, Russia, Sweden and Belgium. Roughly 13% of members reside outside of US.

Just a reminder that if you have not send in your membership fees for this year, please send your checks in at your earliest convenience to COAA, PO Box 4948, Silver Spring, MD 20914-4948.

If your email changes recently, please update your email address by emailing [board@coaaweb.org](mailto:board@coaaweb.org). Your email address is your user identification to the COAA secure web site.

### **(3.3) Recommended COAA by-law changes**

The report by the bylaw committee to the board is summarized as follows.

(a) clarify some languages in the bylaws

(b) In Article V (B), recommends that Removal of membership also applies to the Honorary Members as well.

(c) In Article VI (B): Replace the Chairman of BoD by the President of the association because COAA does not have BoD chairman. Remove the minimum numbers of candidates required for each vacancy or all vacancies for voting board members (according to what we always did.)

(d) Add emails and conference calls as the additional means of communications for the board and the association.

(e) Clarify the responsibility for the Regional Directors. Move the location of Local Chapters (Regional Chapters) and add more words for Regional Directors.

(f) Recommends the election of a President-elect and removal of the position of Vice President. The responsibility of the President-Elect is to coordinate the annual meeting and to assume the duties as liaisons to other professional societies to promote develop, and coordinate joint activities. This function is previously the responsibility of the Program Directors

The board solicits comments on these recommended bylaw changes, pro or con, before they are voted in the next annual meeting.

### ***(3.4) Nominations of board members for next term***

The board solicits nominations for board members for the next term. Four board members will step down. They include Long Chiu, Henry Juang, Sarah Lu, Menglin Jin. We need to elect four new board members. If you nominate someone, please make sure that he/she agrees to the nomination. Nomination can be emailed to [board@coaaweb.org](mailto:board@coaaweb.org). All nominations will be accepted before August 25, 2006. The annual meeting is tentatively scheduled for September 30, 2006.

## **(4) Community News**

### ***(4.1) Dr. Norden Huang is a finalist for Service to America Medal***



The Partnership for Public Service has selected Dr. Norden Huang as a finalist for its Service to America Medals. The awards pay tribute to America's dedicated federal workforce, highlighting those who have made significant contributions to

our country. Honorees are chosen based on their commitment and innovation as well as the impact of their work on addressing the needs of the nation. (reported by Long Chiu)

#### **(4.2) Donations to COAA**

The activities of COAA are dependent on donations from members and friends. COAA is a tax exempted organization and your donation is fully tax deductible to the extent allowed by law. All donors will receive a receipt with the amount specified for the purpose of filing for income tax. COAA's Combined Federal Campaign Agency Designation is No. 7854. Because of our late submission, COAA does not appear in this year's list, but will be back in next year's CFC list. Your donations can also be mailed to COAA, PO Box 4948, Silver Spring, MD, 29014-4948.

For detailed information, please contact the COAA board: [board@coaaweb.org](mailto:board@coaaweb.org)

#### **(4.3) Prof. Yongkang Xue visited DC**

Prof. Yongkang Xue, COAA's former board member and current regional director for Southern California, visited DC from UCLA. COAA held a dinner gathering with him on Friday, May 5, 2006 in Oriental East Restaurant, College Park MD

#### **(4.4) A dinner party is scheduled for Prof. Qing-cun Zeng and his wife, Prof. Peisheng Lu**

All COAA members are invited to attend the COAA dinner party with Prof. Qing-cun Zeng and his wife, Prof. Peisheng Lu, at 6:00 pm on July 17 -Seven Seas at College Park. We need to have headcount for the party. Members who would like to attend the dinner party please let the following COAA board member know:

NASA GSFC - Menglin Jin ([mjin@atmos.umd.edu](mailto:mjin@atmos.umd.edu), 301-618-6186)

UMCP - Quanan Zeng ([quanan@atmos.umd.edu](mailto:quanan@atmos.umd.edu))

COLA-Zeng-Zhen Hu ([hu@cola.iges.org](mailto:hu@cola.iges.org))

NCEP - Likun Wang ([likun.wang@gmail.com](mailto:likun.wang@gmail.com))

GMU - Ruixing Yang ([ryang@gmu.edu](mailto:ryang@gmu.edu))

#### **(4.5) AGU Spring meeting Banquet cancelled**

A banquet was organized at the AGU meeting in Baltimore at Uncle Lee's restaurant, Inner Harbor, Baltimore, MD. The banquet was cancelled due to insufficient number of registrants. We apologize that some registrants were not notified in a timely manner.



**(4.6) Dr. Wei-Kuo Tao received Excellent Alumni Award**



Dr. Wei-Kuo Tao recently received the “Excellent Alumni Award” from National Central University of Taiwan on June 3 2006. The citation is “for his significant contribution in using cloud resolving model to improve our understanding of cloud and precipitation processes and their impact on radiation, surface and climate variations in Tropics”. (submitted by Likun Wang)

**(5) Job Opportunities**

**(5.1) Tenure Track and Postdoctoral Positions in Data Analysis Methodology, National Central University**

The Center for Adaptive Data Analysis Research (CADAR), at the National Central University (NCU), Chungli, Taiwan, invites applicants for 4 to 5 tenure track faculty members to start immediately. The incumbent will also hold a joint position with one of the academic graduate programs at NCU, where he will have a light teaching load of one course per semester. The positions, with rank open, will be filled within the next couple of years. CADAR is a newly founded research center dedicated to developing and exploring the potential of various adaptive data analysis methods to study nonlinear and nonstationary processes (Empirical Mode Decomposition, for example), and also to the applications of adaptive data analysis

methods to solve practical problems. We are looking for candidates with background in the following areas: applied mathematics, physics and engineering with special interest in climate changes, structure safety, nondestructive health monitoring, bio-medical, financial data, and data from other complex systems. Additionally, we are also interested in a number of Post-Doctoral Fellows. Interested person should send a current curricular vita with at least two names of references to Dr. Norden E. Huang, Code 614.2, NASA Goddard Space Flight Center, Greenbelt, MD 20771; (301) 614-5713; [Norden.e.huang@nasa.gov](mailto:Norden.e.huang@nasa.gov)

### ***(5.2) Oceanographer positions at NOAA/NODC.***

The National Oceanographic Data Center is now recruiting for three Oceanographers ZP-1360-02 located in Silver Spring, MD. Announcement NSDIS-NODC-2006-0015. All US citizens. Open Period: 06/13/2006 - 07/11/2006. View vacancy announcements on <https://jobs1.quickhire.com/scripts/doc.exe>

## ***(6) Professional Meeting Announcements***

### ***(6.1) Summer School in Beijing, China***

First ICCEE Summer School for Advanced Study in Climate and Earth Environment: Modeling of the Climate System will be held July 30 - August 12, 2006, Beijing, China. The summer school will cover the fundamentals and art of modeling the components of the climate system: atmosphere, ocean, and land, as well as application and problem solving with climate models. Lectures will be given by leading international and Chinese scientists. Students will have opportunities to present their results and gain hands-on experience with climate modeling. COAA is a cosponsor and COAA member (Prof. Ning Zeng) is one of the leading organizer. More detailed information in <http://web.lasg.ac.cn/summerschool/>.

### ***(6.2) AGU /West Pacific Geophysics Meeting (WPGM)***

Just a reminder that the WPGM will be held July 24-27 in Beijing. COAA is a cosponsor and COAA members have organized a number of sessions. For detail, please check the WPGM web site (<http://www.agu.org/meetings/wp06/>). Registration deadline is June 20, 2006.