



Chinese-American Oceanic and Atmospheric Association

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About the COAA

COAA is a member-led, all-inclusive, non-profit, professional association supporting its members and promoting excellence in oceanic and atmospheric sciences and related activities. Members have many opportunities to share information, news, studies and concerns related to the fields of oceanic and atmospheric sciences through board work, submitting correspondence or articles to the COAA Newsletter, leading workshops and making presentations at the Annual Meetings, making contributions to the COAA website, and networking with people in a wide variety of careers (from well-known senior professionals to young environmental enthusiasts).

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Renew membership and donate to COAA through Paypal online at <http://www.coaaweb.org/donate.php>

2015 COAA President Message

It is my honor to serve as the COAA president in 2015. I appreciate the opportunity to help the Chinese-American oceanic and atmospheric community.

We come to America from different countries/regions (Mainland China, Taiwan, Hong Kong and other regions), but we share common Chinese culture, value and interest. We may be in different stages of our life and career, but we all face similar challenges and issues with our Chinese heritage while living in the American society. COAA was established in 1993 to provide a dynamic forum to connect individual Chinese Americans in oceanic and atmospheric fields and to help each other in advancing our career in U.S.

Every year COAA organizes various science and social events to facilitate networking and exchange of knowledge and information among COAA members and friends including COAA Annual Workshop (usually in spring), COAA Fall Picnic, COAA Fall AGU Banquet in San Francisco, and COAA AMS Reception. Every three years, COAA organizes an international conference at locations alternated in US, Mainland China, Taiwan and Hong Kong. COAA hosts a website, and routinely sends newsletters and email notifications. COAA Southern California Chapter (COAA-SCC) was established in 2008 to serve the regional Chinese-Americans and implement the COAA goal in Southern California area.

In 2015, COAA plans to start a few new activities to provide more opportunities for networking and information exchange, while continuing the above annual COAA events:

- Establish COAA Regional Chapter in Boulder, CO in April 2015, thanks to Bill Kuo's leadership and support. There is also a plan to establish COAA-Hawaii Chapter.
- Organize Annual COAA Pingpong Tournament early this summer.
- Co-convene "US-Asian Partnership Symposium" as part of 2016 AMS main program to promote US-Asian scientific collaboration and to recognize US and Asian scientists who have contributed to US-Asian Partnership. The proposal for this symposium is currently under review by AMS Annual Meeting Oversight Committee. I'd like to thank Fuzhong Weng and Ken Carey for their help.
- Start the three-president leadership management with the president of last year, the current president and the incoming president (i.e., the president-elect) to ensure continuity and consistency.

I'd like thank Chung-Chu Teng, the 2014 COAA president for his leadership, the COAA Board of Directors for their efforts in various COAA activities, our sponsors (such as, ERT, IMSG, Cyber Data) for their financial support throughout the years and all the COAA members and friends for your involvement. I also welcome new friends to participate the COAA activities no matter whether or not you are currently a COAA member. Finally, as a nonprofit organization, COAA needs financial support from our members and many corporate sponsors.

Jin Huang
2015 COAA President

COAA Colorado Chapter is Established

Dear Colleagues,

Established in 1993 and headquartered in Washington DC, the Chinese-American Oceanic and Atmospheric Association (COAA) strives to provide a platform where Chinese scientists and engineers in the field of oceanic and atmospheric sciences find mutual support and help to advance their careers. However, it has been inconvenient for colleagues in Colorado participating COAA activities in DC area. On April 16th, 2015, COAA held a special luncheon in Boulder, CO that was attended by more than fifty local scientists and engineers. As demonstrated during this event, attendees were very enthusiastic for being a part of this organization and its activities organized locally.

Today, we are pleased to announce the founding of the COAA Colorado Chapter (COAA-CC). As a regional chapter, COAA-CC will focus its service to the Chinese scientific community in the Colorado area. Through seminars, workshops, and various social activities, we hope to present opportunities to our members for networking, exchanging ideas, sharing experiences, enhancing skills, and promoting collaborations as we face challenges and seek supports in career and in life.

We cordially invite all Chinese-American colleagues in Colorado to join COAA and COAA-CC to gain access to information, ideas, and support, to be part of a community to share our causes and help each other to thrive.

Sincerely

Bill Kuo
President of COAA-CC

COAA Solicits Applications for Best Dissertation Award 2014-2015

COAA starts to accept applications for the 3rd Annual Best Dissertation Award. Through this award, we endeavor to support the research of tomorrow's leading Chinese scientists. The application deadline is **December 31, 2015**, and the awardee(s) will be announced at AMS annual meeting in January 2016. Applications from last year will be included in the same pool for selection.

Qualified candidate should own a Ph.D. degree in geoscience field from an accredited university in the U.S. or Canada in the recent two years. He/she should pass the thesis defense between **October 1, 2013** and **September 30, 2015** certified by the supervisor. Please email awards@coaaweb.org with the thesis (PDF format) and 1-page CV including education, experience, publication and honors. Two recommendation letters with one from the supervisor are highly recommended but not required. Applicants without a COAA membership need to register at the COAA website (<http://www.coaaweb.org/join.php>) first in order to be eligible for the solicitation. Check COAA news email announcement and COAA website for details and updates.

Announcement of COAA co-convened AMS Session

Dear COAA members and friends,

We would like to draw your attention to a COAA co-sponsored and co-convened joint session, entitled "Part II of Special Sessions on US-International Partnerships: Joint Research and Coordinated Observations in Hydrometeorology, Extremes and High-Impact Events in the US and Asia," as a part of the upcoming 2016 AMS Annual Meeting to be held during January 10-14 in New Orleans, Louisiana. This is the first time for COAA to have such a formal appearance in major professional conferences. This is also a great opportunity for Chinese scientists from different countries/regions (Mainland China, Taiwan, Hong Kong and other regions) in this field to present research results at this special AMS session and to interact with our fellow colleagues in the US and other parts of Asia.

We strongly encourage you to consider submitting an abstract to this session. Your contribution is vital to its success. Please feel free to forward the information to your colleagues working in the topic-related area.

To submit an abstract, go to the following link and select "Joint Session: Part II of Special Sessions on US-International Partnerships: Joint Research and Coordinated Observations in Hydrometeorology, Extremes and High-Impact Events in the US and Asia". <https://ams.confex.com/ams/96Annual/30hydro/papers/index.cgi>. We are looking forward to a big turnout of COAA members and friends in the 2016 AMS annual meeting

The **abstracts are due August 3, 2015.**

Session Description:

Joint Session: Part II of Special Sessions on US-International Partnerships: Joint Research and Coordinated Observations in Hydrometeorology, Extremes and High-Impact Events in the US and Asia

Hydrometeorological disasters are the most recurring and devastating natural hazards in the world, directly impacting human lives and causing severe economic damage through property loss. The US and Asia face similar challenges in observing, understanding and forecasting hydrometeorological events, in particularly associated with extremes and high-impact events. This session is aimed at fostering and promoting communications and collaborations among US and Asian countries through information exchange on science advances, technology and infrastructure capabilities, data, and common practices. We invite contributions dealing with all aspects of hydrometeorological studies including in-situ and satellite observation, data assimilation, atmospheric and hydrologic process studies and modeling, and weather and hydrologic forecasting on timescales from days to seasons. We particularly welcome US-Asian joint research in those areas. Sponsors: • AMS Board on Global Strategies • Chinese-American Oceanic and Atmospheric Association (COAA) • The 30th Conference on Hydrology • AMS Committee on Satellite Meteorology, Oceanography and Climatology.

Conveners:

- Jin Huang (Jin.Huang@noaa.gov)
- Fuzhong Weng (Fuzhong.Weng@noaa.gov)
- Ken Carey (ken.carey@ertcorp.com)
- John Eylander (John.B.Eylander@usace.army.mil)

COAA 2015 Chinese New Year Luncheon

March 8, 2015 – COAA hosted the annual Chinese New Year Luncheon at Hunan Manor Restaurant in Columbia, MD. This is a long-term tradition of COAA headquarter on celebrating the Chinese New Year and on recognizing of COAA’s achievements during the past year. More than 20 COAA members, including some past COAA presidents and board members, attended this event. During the luncheon, COAA 2014 president, Dr. Chung-Chu Teng, summarized the major achievements COAA had made during 2014, and acknowledged the contributions from COAA board members and continuous support from COAA members and sponsors. Then, he presented the newly elected COAA 2015 boards, which will be led by president Dr. Jin Huang and president-elect, Dr. Chungu Lu. The luncheon attendees enjoyed joyful reunion as well as delicious gourmets.



COAA 2015 Chinese New Year Luncheon

(Materials Provided by Chung-Chu Teng and Jie Gong; Photo Credit to Jin Huang and Hao He)

COAA 2015 Spring Workshop

April 26, 2015 - The Chinese-American Oceanic and Atmospheric Association (COAA) held its 2015 Spring Science Workshop at the University of Maryland, College Park, Maryland. More than 70 scientists and students from NOAA, NASA, WMO, local and abroad universities attended this event. The workshop was kicked off by the president of COAA, Dr. Jin Huang, who gave the guests a warm welcome and an introduction to recent COAA activities and achievements. Three keynote talks were then given, followed by social activities and luncheon.

The first keynote presentation was brought by Dr. Wenjian Zhang (张文建), the Director of Department of Observing and Information System of World Meteorological Organization (WMO). He gave a well-rounded introduction of “WMO Satellite Programme”. In his presentation, Dr.

Zhang first introduced the history and current infrastructure of WMO. He then presented a thorough description of WMO's satellite program, the advances during the past several decades, as well as the international collaboration efforts on promoting the launch of new generation of Geostationary Satellites (GEOS). The improvement of new generation of GEOS was summarized by the Olympic motto "faster, higher, stronger". The speech was concluded by WMO's future strategic plans and social economical impact studies of the benefit of launching weather satellites. At last, Dr. Zhang shared with the audience three of his precious personal suggestions of success: work hard, and get your effort acknowledged by someone important (你得行; 有人行; 说你行的人行). The speech was informative and amusing, and was well received by the audience.

The second keynote speaker was Dr. Xuepeng Zhao (赵学鹏), NOAA CDR Program Scientist, who gave a talk titled "NOAA Climate Data Record (CDR) Program and Products". The talk began with a brief introduction of NOAA's motivation of creating the CDR program and the uniqueness of the products. Then, Dr. Zhao thoroughly explained the production, sustainment and distribution of the CDR products with some vivid application examples showing the advantage of CDR products. At last, Dr. Zhao advocated usage of CDR products and encouraged collaboration opportunities in the future.



COAA 2015 Spring Workshop

The third keynote speaker was Dr. Kuanman Xu (徐宽满), a reputational scientist from NASA Langley Center, who gave a thought-provoking review of the advances of cloud parameterization in climate models and his group's recent achievements. The title of his talk is "the Multi-scale Modeling Framework (MMF) Approach – Improving Cloud Parameterizations in Climate Models with Improved Cloud Resolving Models (CRMs)". Cloud parameterization in global climate models (GCMs) is a well-known headache by the community for a long time. Dr. Xu first introduced the communities' effort starting from his Ph.D. era on improving the cloud parameterization using MMF approach. Then, he thoroughly described his current team's effort

on improving such an approach by introducing a higher-order turbulence closure (IPHOC). By comparison with other previous works, he found that the performance of lower level cloud in GCMs has been significantly improved after using IPHOC and increasing the vertical resolution in the boundary layer. Dr. Xu successfully articulated a very scientific oriented work through a plain and interesting way that was well received by the audience from various backgrounds.

After the keynote speeches, Prof. Song Yang (杨崧) from Sun Yat-Sen University brought the university's latest policy on recruiting abroad young scientists to the faculty team and urged the audience to apply. Afterwards, the workshop participants enjoyed a joyful lunch from local restaurants provided by COAA. The lunch break was filled with friendly atmosphere, lots of discussions and exchange of scientific ideas and life experiences, connection with long-time-no-see friends and new colleagues.

COAA was founded in 1993. The main purpose is to connect the Chinese Oceanic and Atmospheric scientists and related professionals in the United States, and closely networking with the scientists and professionals from the Chinese mainland, Taiwan, Hong Kong and around the world; and promote the exchange ideas and information in the field of Atmospheric and Oceanic researches. For more information, please visit the COAA website at <http://www.coaaweb.org/index.php>

(Materials and Photos Provided by Jie Gong and Huan Wu)

COAA-CC Lunch and Social Event

April 16, 2015 - The Colorado front range, including Boulder and Ft. Collins, has the largest population of atmospheric and oceanic scientists and engineers in the United States outside the Washington D.C. area. Many Chinese American scientists and engineers work at NCAR, UCAR, NOAA Laboratories, CU-Boulder, and Colorado State University conducting atmospheric and oceanic research. Taking advantage of the presence of Dr. Jin Huang, COAA President, and Dr. Chungu Lu, COAA President-Elect, Drs. Bill Kuo and Laura Pan, both from NCAR, organized a special COAA Lunch Social Event at the Lee Yuan Chinese Cuisine in Boulder on 16th April 2015. The event was attended by 52 Chinese American scientists and engineers, almost exceeded the capability of the restaurant. Dr. Jin Huang and Dr. Chungu Lu gave a very nice introduction of COAA, including its missions, histories, activities, and planned future workshops. In particular, the goal of COAA - ***To foster a culture to connect individual Chinese Americans in ocean and atmosphere fields to help each other in advancing our scientific careers*** - strongly resonate with the participants. As a result, 24 new COAA members have signed up at the event. Bill Kuo then proposed to establish a Boulder Chapter, which would organize future local COAA activities to promote networking and connections among Chinese American scientists and engineers. Bill's proposal received enthusiastic responses. More than 10 participants volunteer to work for COAA Boulder Chapter in various functions. Clearly, the local Chinese American scientists are very interested in having such a COAA Boulder Chapter to help organize social and networking activities, and to help each other advancing our scientific careers. NCAR's Debbie Mao and Cindy Zhang volunteered to work on the event registration and new membership registration throughout the lunch hour. Dr. Li Zhang, who used to be the Chief Financial Officer at COAA South

California Chapter, volunteered to help with financial matters for COAA Boulder Chapter. Dr. Wenqing Han, Dr. Lixin Lu, and Dr. Yuanfu Xie agreed to serve as the point of contact for CU-Boulder, Colorado State University, and NOAA Boulder Laboratories, respectively. Bill Kuo and colleagues in Boulder are taking steps to get the COAA Boulder Chapter established. This is expected to take place in the next few months.



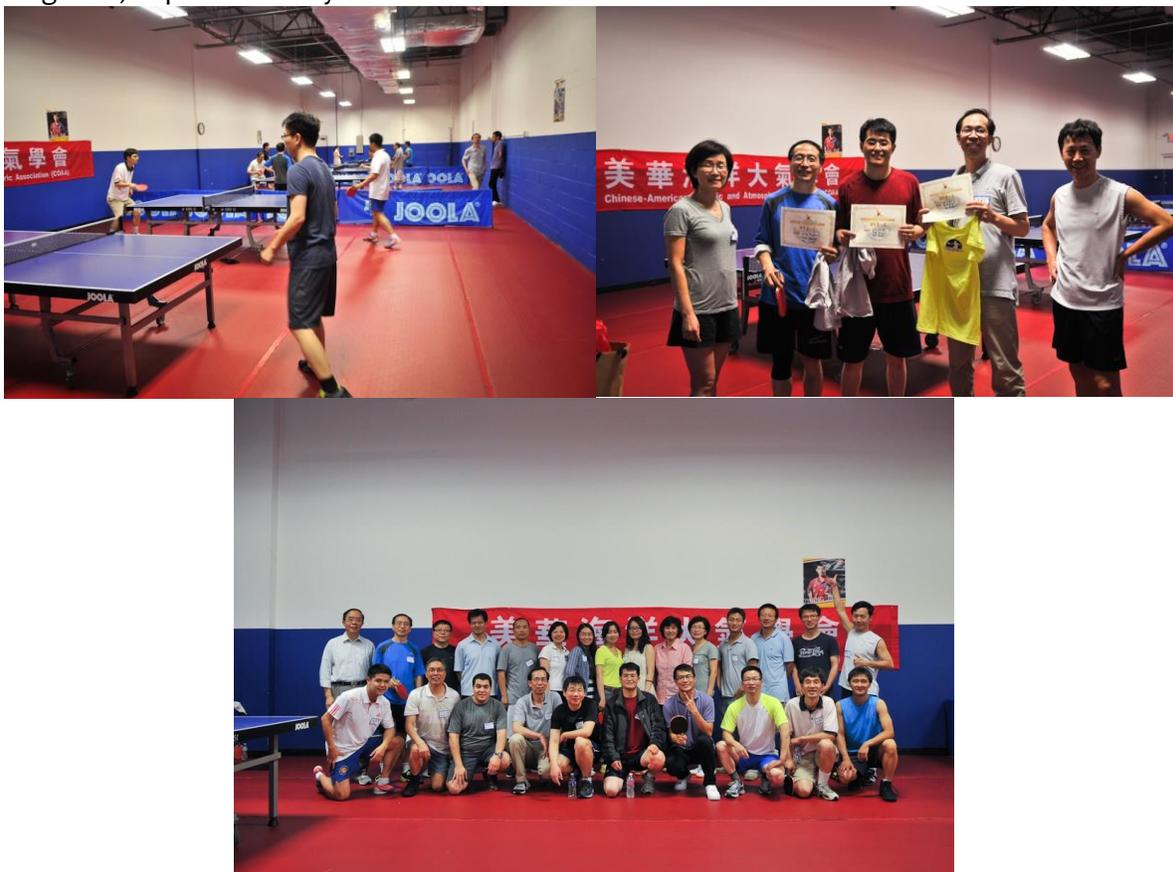
COAA Colorado Chapter Lunch and Social Event, 2015

(Materials and Photos provided by Dr. Bill Kuo)

First COAA Ping-Pong Tournament

June 6, 2015 - Aspiring to beat the relatively cool Spring of the El Nino year, a group of scientists, students, and professionals from Chinese-American Oceanic and Atmospheric Association (COAA) really stirred up the temperature on Saturday, June 6, 2015 by conducting a Ping-Pong match in the D.C.-Maryland area. With combined goals of health, hobby, as well as professional networking, nearly 30 amateur players attended the one-day event in a local Ping-Pong Clubhouse Howard County Table Tennis Center, and their seriousness and enthusiasm made them look more like a group of professional players from their cultural background (Ping-Pong has been considered as the Chinese quintessence and the national pastime – it is in their blood). The match generated top three seed players out of ~30 contenders for the single games, and one champion for the group games. The COAA President, Dr. Jin Huang, and the event sponsor - President of

ERT, Peter Li, presented certificates and awards for the winners. The event ended with a positive note that these meteorological professionals did beat the El Nino anomalous cool weather by an uptick of temperature of 10 degrees (85F on Saturday vs. 75F on Friday), by bouncing the Ping-Pong balls, unprofessionally.



COAA Ping-Pong Tournament

(Materials Provided by Chungu Lu. Photo credits to Haifeng Qian)

Call for Contributions to COAA Newsletter

COAA is made possible by your support and contribution. We would like to invite and encourage you to send us any news or info that you would like to share with the COAA community. These info and news include but are not limited to:

- Awards (received by you or your colleagues);
- Nomination of COAA Spotlight candidates;
- Major achievements (by you, your colleagues, students, or staff);
- Workshops or conferences you or your organization will host;
- Important events or milestones of your lab/group/organization;
- Fun, educational, photogenic, or surprising photos (especially from the field);
- Local chapter/group news (interest, initiation, establishment, announcement, events, etc.)

Please send your announcements to: news@coaaweb.org

COAA Spotlight: Prof. Rong Fu



Prof. Rong Fu (付容) received her Bachelor's degree in Geophysics from Peking University in 1984, and Ph.D. in Atmospheric Sciences from Columbia University in 1991. She is currently a professor and associate chair in the Department of Geological Sciences, the University of Texas at Austin. Her research in recent decades has been focused on the mechanisms that control droughts, rainfall seasonality and variability over Amazonian and North American regions, and how changes of global climate, local vegetation and biomass burning, and oceanic decadal variability have influenced these processes in recent past and will influence rainfall seasonality and droughts in future, and also on long-range transport of water vapor and biomass generated pollutants to the upper troposphere and lower stratosphere over the global tropics and Asian monsoon/Tibetan Plateau. She has also developed a drought early warning for US Great Plains working with regional water resource managers. Her research is among the earliest to observationally uncover significant roles of tropical rainforests in determining rainfall seasonality over Amazonia and Tibetan Plateau in determining water vapor transport to global stratosphere; She received NSF CAREER and NASA New Investigator Awards, is currently the President of the Global Environmental Change Focus Group and Leadership Team of the American Geophysical Union Council. She has served on many national and international panels either as a member or as a co-chair, and also National Research Council special committees on "Abrupt Impact of Climate Change" and "Landscapes on the edge", and the Climate Working Group for NOAA Science Advisory Board.

In this article, we are fortunate to have Prof. Fu to share his experience, visions and suggestions with COAA members.

Q: How did you decide to study atmospheric/ocean science?

Fu: I stumbled into atmospheric/ocean science for a wrong reason. Back in 1980, the college admission rate was very low and we had to choose colleagues and majors before the entrance examinations. Just retired from the Army, I had six months to catch up and prepare for my college entrance exam. I did not have much time to think through. I was interested in basic physics and chemistry, but want to avoid the risk of being a high school teacher when I graduated. A friend of my parents recommended the meteorological program in Peking University. I liked the stimulating and liberal academic environment on campus. Thus, I picked this program, was accepted and started my career in the atmospheric science.

Back at that time, the undergraduate study in Peking University emphasized basic mathematic and physics training, which built solid foundation for my career. However, there was little room for imagination so easily inspired by blue sky, white clouds and scarlet sunset. Thus, I did not grow to enjoy atmospheric research until I entered graduate program in Columbia University. Thus, my association with atmospheric research can be described as "get married first, fall in love later."

Q: Which accomplishments are you most proud of in your professional life, including your group achievements? Can you share with us your research and career development for the sake of young COAA members?

Fu: Different people measure professional accomplishment differently depending on what is important to that individual. For me, the joy of exploring new processes, overcoming my own limitations, and giving back to the community, are central for keeping me motivated after many sleepless nights and last minute panics. Thus, my most proud professional accomplishments include a) being able to follow my heart and explore a few areas long before they become popular, for example, being the first to suggest that the increase of rainforest photosynthesis during the late dry season initiates the dry to wet transition, and also provides inter-seasonal drought memory. This finding has provided an important piece for the paradigm shift from viewing land surface as a slave of oceanic variability to an active regulator in determining rainfall variability and future change in the Amazon. My work also provides the first evidence that suggests the Tibetan Plateau as an important source region for the global stratosphere water vapor. This work has inspired many follow-up studies in Asia. b) I am proud to work with outstanding students and helped them start more successful careers than mine. Six of my former group members have become tenure track faculty in the US and abroad. c) I was terrified of speaking in public and asking questions in seminars when I was a graduate student. By forcing myself to step outside of the comfort zone, I was able to improve my communication and critical thinking skills. These improvements have opened the door for me to serve on high level committees such as National Council Committees for special reports, AGU science trend task force, joint panel AAA-Resource for Future Climate-economy panels along side of some of the most well-spoken scientists in our field. They also give me confidence to accept interviews from local TV channels and newspapers. These experiences, in turn, improve my confidence to serve the research community, led me to become the President of the Global Environmental Change Focus Group of the American Geophysical Union (AGU). In this capacity, I have created two new awards, including an early career scientist award, to recognize the achievement of interdisciplinary research in global environmental change (GEC). As the chair and a member of the AGU fellow committee of the GEC Focus Group during the past three years, I was able to help unrepresented groups in AGU honor and awards, including Asian American, women, and international scientists, to receive their deserved recognitions.

Q: Who influenced you the most in your professional life and why?

Fu: I have learned from many of my colleagues through my career. Among them, my PhD advisor, Anthony Del Genio, showed me not only how to define and carry out research, but also the importance of principle and honesty in professional life; Inez Fung, who had no official role in my PhD study, but spent countless hours teaching me how to think big and not to be distracted by daily disturbances. She taught me how to be strong under pressure as a female scientist, and gave me her generous support when I fell apart; Bill Rossow, who inspired me to enjoy atmospheric science like a kid loves candy; Robert Dickinson, who taught me how to develop self-confidence, and improve scientific writing; Kuo-Nan Liou, who taught me the importance of supporting each other in order to overcome the bias Chinese-American scientists face through his own tireless efforts. Finally, my students and postdocs have taught me so much in the areas far beyond my expertise.

Q: How are you interacting with Chinese-speaking scientists in Asia?

Fu: I have worked with Chinese scientists through the NSFC Oversea Young Scientist program, the Sino-U.S. workshop series for Surface-Troposphere-Stratosphere Interaction (STSI) Cooperation

Research between the Chinese Meteorological Administration, Institute of Atmospheric Physics (IAP) and US universities, a NSFC project led by IAP studying global impact of Tibetan Plateau, and as a Lecturing Chair Professor at the Center for Earth System Science, Tsinghua University and a former Adjunct Professor of Beijing Normal University. I am very glad to see rapid progress in the quality of the research by Chinese scientists. I am very proud to promote Chinese scientists (in China) through the AGU award and recognitions.

Q: What are your perspectives for future direction in our field?

Fu: The atmospheric-oceanic science has become more interdisciplinary, especially in its intersections with biosphere, cryosphere, social-economic sciences, applications in supporting policy and stakeholders. To be in the forefront of this trend, we have to improve our communicate skill with scientists in other fields, to public and politicians. For many Chinese-American scientists such as myself, this means we have to get out of our comfort zone.

Q: What are your major advices to young scientists in our field?

Fu: In “The 8th Habit: From Effectiveness to Greatness,” Stephen Covey points out the most important factor to be successful in the 21st century is the human motivation. Thus, it is essential to find topics close to our heart, so we can enjoy science, despite of strong pressure to produce more with less time; Communication and human skills also become increasingly important for our professional life. Volunteering is a great starting point to improve these skills; Supporting each other, as done by many outstanding Chinese-American scientists, is the best way to improving our professional life and representation at the highest level in atmosphere/ocean science.

Recent Conference, Journal and Job Announcements

- **AGU Fall Meeting**

Date: 14-18 December 2015

Location: San Francisco, CA

Abstract submission deadline: **05 August 2015**

URL: <http://fallmeeting.agu.org/2015/>

Session highlights

A002: A New Look at Climate Diagnosis and Modeling in the Era of Climate Informatics

Conveners: Yi Deng (Georgia Tech, USA), Imme Ebert-Uphoff (Colorado State Univ., USA)

The size and complexity of observational and model-simulated climate data have seen accelerated growth since the late 1970s. This increasing amount of data and our growing computational capacity create unprecedented opportunities for bringing innovative approaches of machine learning and data mining to climate data for interdisciplinary knowledge discovery, thus the birth of a new area “climate informatics”. This session seeks contributions from all application areas

with the goal of improving process-level understanding and modeling of the Earth's coupled climate system through advanced data mining and machine learning methods. These include but are not restricted to the development and implementation of new data mining methods for climate diagnosis and atmospheric process study, new ideas of data assimilation, stochastic climate and environment modeling, use of causal discovery and structure learning methods to understand large-scale dynamical processes, uncertainty quantification in climate simulation and projection, and data-driven approaches in weather forecasting and climate prediction.

7468: Mineral dust aerosols: from small-scale insights to large-scale understanding

Conveners: **Chun Zhao** (PNNL, USA) **Martina Klose** (University of Cologne, Germany) **Joanna M Nield** (University of Southampton, UK) and **Hongbin Yu**, (University of Maryland and NASA GSFC, USA)

Interactions of the dust cycle with other components of the Earth system produce a wide range of complex effects on atmospheric composition, human health, hydrological cycle, climate, and ecosystems. To better understand and assess these effects, substantial advances are needed, including field and laboratory measurements, remote sensing techniques, and models of the physical and chemical properties of dust. This session invites contributions reporting any such advances, as well as studies addressing any aspect of the dust cycle and its impact on the Earth system, including the identification of dust source regions, characterization of dust physical, chemical, and optical properties, modeling of dust cycle and its interactions with other cycles of the Earth system, research of dust interactions with clouds, radiation, rainfall, and the biosphere, quantification of effects of land use and climate changes on dust emissions, and understanding of dust impacts on air quality and human health.

- **96th AMS Annual Meeting**

Date: 10-14 January 2016

Location: New Orleans, LA

Abstract submission deadline: **3 August 2015**

URL: <http://annual.ametsoc.org/2016/index.cfm/call-for-papers/>

Session highlights

Special Session on US-International Partnership – Joint Session II

Co-Convenor and Co-Sponsor: **COAA**

Please refer to Page 3 of this issue for details of program and submission guidelines.

Special Symposium on Seamless Weather and Climate Prediction—Expectations and Limits of Multi-scale Predictability

Conveners: **Fuqing Zhang** (PSU), **Kerry Emanuel** (MIT)

Through a mix of invited and contributed presentations, this special one-day symposium solicits papers on recent progress and challenges in seamless weather and climate prediction with particular emphasis on our current understanding of both the practical and intrinsic aspects of multi-scale atmospheric predictability for various weather and climate phenomena, including tornadic thunderstorms, mesoscale convective vortices, tropical cyclones, winter snowstorms, flooding, heat waves, droughts, MJOs, monsoons and ENSOs. Practical predictability refers to the

current capability of a forecast system or agency under best practice given state-of-the-art models with state-of-the-art initial and boundary conditions. Intrinsic predictability refers to the limit of prediction at different temporal and spatial scales given nearly perfect initial conditions and nearly perfect forecast models. Understanding the limits of intrinsic predictability is crucial in setting expectations and priorities for advancing deterministic forecasting (through better model, observing network and data assimilation) and in providing guidance on the design of advanced probabilistic and ensemble prediction.

18th Conference on Atmospheric Chemistry

Conveners: **Jeff Collet** (Colorado State Univ., USA), **Jiwen Fan** (PNNL, USA)

The 18th Conference on Atmospheric Chemistry is seeking contributions related to all aspects of atmospheric chemistry and air quality, including interactions among atmospheric chemistry, physics and dynamics; biogenic emissions; secondary aerosol formation; cloud effects on atmospheric chemistry; reactive nitrogen sources, transport, transformation, and sinks; and impacts of oil and gas development on air quality. The conference will include invited and contributed oral and poster sessions, facilitating dialogue among atmospheric chemists, physicists, and meteorologists to tackle research challenges in this interdisciplinary field. The conference will also feature joint sessions with the Eighth Symposium on Aerosol-Cloud-Climate Interactions and Mario J. Molina Symposium. Specific topics include:

- Air Quality Impacts of Oil and Gas Development
- Atmospheric Convection: Impact on Atmospheric Composition and Chemistry (Joint with 8AeroCloud)
- Cloud Effects on Atmospheric Chemistry
- Themed-joint session: Greenhouse Gas Emissions: Quantifying Uncertainties in Measurements and Models and Resultant Climate Impacts
- Pollutant sources, transport, transformation, and sinks
- Secondary Organic Aerosols: Formation, Properties, and Atmospheric Evolution

Eighth Symposium on Aerosol-Cloud-Climate Interactions

Conveners: **Sonia Kreidenweis** (Colorado State Univ., USA), **Jiwen Fan** (PNNL, USA)

The Eighth Symposium on Aerosol-Cloud-Climate Interactions will organize various sessions on aerosol-radiation and aerosol-cloud interactions on both process-level understanding and parameterizations for models:

- Aerosol and Monsoon Interactions
- Aerosol Impacts on Cirrus Clouds
- Aerosol-cloud interactions in shallow clouds
- Themed-joint session: Atmospheric chemistry and aerosols in weather and climate prediction and analysis
- Current challenges of aerosol-cloud interactions in regional and global climate models
- Impacts of aerosols on storm dynamics, cloud physics, and precipitation
- Meteorology, Aerosols, Clouds, and Precipitation in Amazonia- GoAmazon2014/5 field campaigns (Joint with 18ATCHEM)
- Soil dust: Lofting and transport, characterization, and interactions with clouds and storms (Joint with 18th ATCHEM)

- **Call for Abstract Submission of a Special Issue on Remote Sensing**

A special issue on Satellite Climate Data Records and Applications has been approved by the open access journal: Remote Sensing. You are invited to submit papers to this special issue. Paper submission deadline is January 1, 2016 and the submission site is:

http://www.mdpi.com/journal/remotesensing/special_issues/CDR . This special issue seeks papers addressing the development, production, and analysis of long-term satellite climate data records (CDRs) along with CDR applications in the study of climate and environment changes. Potential topics include:

- Development and production of CDRs from satellite observations.
- Inter-satellite calibration approaches and retrieval methods for CDR development.
- Uncertainty analysis and validation of CDR products.
- Trend detection and climate variability analysis using CDRs.
- Applications of CDRs in monitoring climate and environmental changes.
- Usage of CDRs in numerical weather reanalysis and climate projection.
- Studies of societal benefit of CDRs on serving the public sectors, including agriculture, forestry, energy, health, tourism, transportation, water, fisheries, etc.

Specific Instructions to authors can be found at:

https://dl.dropboxusercontent.com/u/165068305/Remote_Sensing-Additional_Instructions.pdf

Special Issue Editors: Xuepeng Zhao (NOAA), Wenze Yang (UMD), Viju John (EUMETSAT), Hui Lu (Tsinghua Univ.), Ken Knapp (NOAA).

- **Postdoctoral Position in Atmospheric Circulation at Chinese University of Hong Kong (CUHK)**

We are searching for a good postdoctoral fellow to perform observation- and model-based diagnostic studies of atmospheric phenomena prevalent in our region, and their association with climate change and air quality. Applications are invited for a postdoctoral research position at the Institute of Environment, Energy and Sustainability (IEES), the Chinese University of Hong Kong (CUHK), Hong Kong, China. The IEES is dedicated to enhancing scholarship, education, research and knowledge transfer in various areas related to the environment and energy, with particular emphasis on the Hong Kong and East Asian regions. The appointee will collaborate with Professor Ngar-Cheung (Gabriel) Lau, IEES Director, and his colleagues at CUHK in diagnosing the structural and dynamical characteristics of the atmospheric circulation features prevalent in these regions, on time scales ranging from hours to decades. Particular emphasis will be placed on (1) the impact of climate change on the behavior of extreme events such as heat and cold waves, heavy rain and severe drought episodes, and tropical cyclones, and (2) the role of meteorological processes in heavy air pollution events. These investigations will be conducted by applying modern statistical techniques (e.g., EOF, SVD, CCA, downscaling algorithms, etc.) to observational station, satellite and reanalysis datasets, as well as output from specifically-designed GCM and regional climate model experiments. Physical interpretation of the findings will be made based on dynamical knowledge of the pertinent atmospheric circulation systems, and their coupling with boundary conditions at various land and oceanic sites. Recent Ph.D. recipients or students expecting to fulfill all requirements for this degree in the next several months are welcome to apply. Candidates with expertise and interest in physically-grounded diagnostic studies of climate variability on a wide spectrum of temporal and spatial scales, as well as experience in handling high-volume observational and model datasets, are especially encouraged. An initial two-year appointment with a competitive compensation package will be made. This vacancy will be filled as

soon as possible and preferably before August 2015. Applicants are requested to send electronic versions of their curriculum vitae (with lists of publications and the names and addresses of three referees), as well as a one-page statement of research interest and proposed work to be performed at CUHK, to Professor Lau (Gabriel.Lau@cuhk.edu.hk), before early April, 2015. Applications will be evaluated on a continuing basis. A formal announcement of this position will be posted at the CUHK website for job vacancies in April, 2015.

- **Postdoctoral Position in Data Assimilation at University of Utah**

This is a new postdoctoral research associate position at the Department of Atmospheric Sciences, the University of Utah in the area of satellite data assimilation. Successful candidate will join Professor Zhaoxia Pu's research group (<http://www.inscc.utah.edu/~pu>) and conduct research in satellite data assimilation with mesoscale numerical weather prediction model.

Qualified applicants should have a Ph.D. degree in Atmospheric Sciences and relevant fields, a strong background in one or more of the following fields: satellite meteorology, radiative transfer, cloud microphysics, and land surface processes, proficiency with high-resolution atmospheric models such as WRF and HWRF, and strong programming abilities and excellent writing skills.

The position is available immediately and the starting date is negotiable based on mutual interests. The initial appointment will be for one year, renewable dependent on the performance and availability of funding. Salary will be competitive based on experience and qualification.

To apply for the position, please submit a complete CV, a letter expressing research interests, and the names and contact information for 3 references to Prof. Zhaoxia Pu at Zhaoxia.Pu@utah.edu.

For most recent conference updates and job listing, please visit the COAA website:

<http://www.coaaweb.org/career.php>

Please send your conference/workshop/journal/job announcement to news@coaaweb.org

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