



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>

Mark Your Calendar for COAA AGU and AMS Banquet

Please remember to mark your calendar for COAA AGU Banquet on **December 17, 2015**, and AMS Banquet on **January 11, 2016**. For details, see Page 9 of this issue. AGU early-bird rate ends on **November 30, 2015**.

Announcement of the 7th International Conference on Atmosphere, Ocean, and Climate Change (ICAOCC)

The Chinese-American Oceanic and Atmospheric Association (COAA) will organize the 7th International Conference on Atmosphere, Ocean, and Climate Change (ICAOCC) in collaboration with the China Meteorological Administration (CMA), China State Ocean Administration (COA), Chinese Academy of Sciences/Institute of Atmospheric Physics (CAS/IAP), China National Natural Science Foundation (NSFC), and Beijing Normal University (BNU). The conference will be held on the campus of Beijing Normal University during **July 27-30, 2016** in **Beijing, China**.

The ICAOCC aims to bring in global Chinese professionals on ocean and atmosphere science and technologies to exchange ideas and experiences, while non-Chinese attendance is equally welcome to attend the major-open international conference. The conference is the premier platform for experts from all over the world to explore new science and technologies, to inspire new strategies, and to identify opportunities for future collaborations among their peers. It is also a means for senior scientists and engineers to provide helpful information for younger ones to stimulate the knowledge transfer from generation to generation. The ICAOCC is held every three years, rotating among mainland China, Taiwan, and Hong Kong. The 6th (in 2013) and 5th (in 2010) of this conference series was held in Taipei and Hong Kong, respectively.

Details of the conference science programs, registration, venues, and travel supports will be announced in the upcoming months.

COAA Welcomed the Visit of CMA Delegates

September 1, 2015 - China Meteorological Administration (CMA) Delegates Zheng, Guoguang (Director) and several others visited NOAA during August 31 - September 1 and signed the new NOAA-CMA bi-lateral agreement. On Sep 1 evening, COAA organized an informal dinner reception to welcome the CMA delegates and to provide a social event for the Chinese colleagues in the DC metropolitan area to communicate and interact with the CMA leadership and to learn the latest news on CMA development.

The CMA delegate group is consisted of the following CMA officers:

郑国光 中国气象局局长 (南气院)

周恒 中国气象局国际合作司司长 (南气院)

毕宝贵 国家气象中心主任（北气院）
宋连春 国家气候中心主任（南京大学）
杨军 国家卫星气象中心主任（北京大学）
李良序 气象探测中心主任（武汉空军雷达学院）

Taking place at the Univ. of Maryland College Park Earth System Science Interdisciplinary Center (ESSIC), the COAA Reception was kicked off at 5:30pm by COAA President, Dr. Jin Huang. More than 60 COAA members welcomed the arrival of the delegates from CMA and China US Embassy. While everyone was enjoying wines and delicious dinner dishes, Dr. Jin Huang introduced CMA Director Zheng and other CMA delegates. Starting by recalling his experience in attending the first COAA-AMS reception 5 years ago, Director Zheng gave an enthusiastic speech on many perspectives of the CMA-NOAA collaborations and the CMA-COAA relation. He introduced the latest developments in research and operational areas at CMA, and the latest information on the bi-lateral CMA-NOAA agreements. Director Zheng also highlighted the CMA's strong desires on attracting more and more highly skilled talents from overseas to visit and join CMA. He also reviewed the close working relationship between CMA and COAA in the past a few years, and highlighted that CMA delegates attended the COAA AMS Reception nearly every year. At the event, COAA President, Dr. Jin Huang and President-Elect, Dr. Chungu Lu, also announced the COAA's 2016 International Conference in Beijing in July 2016, and COAA sincerely looks forward to working closely with CMA for a successful international conference next summer. Former COAA presidents, Dr. Fuzhong Weng and Prof. Zhanqing Li, also gave warm speeches at the event, to welcome the CMA delegates as well as to encourage the participants to contribute more to China's development on the meteorological science and to ask for stronger support from CMA on COAA's activities. The sponsors of the events, Dr. Yang Jingli from ERT and Dr. Le Jiang from IMSG, also introduced their companies to the CMA delegates and audiences. The event closed at 8pm after group photo taking. This COAA Reception was organized with short notice, but was well received by the participants. This event, like all other COAA-organized events, also provided an opportunity for COAA members and friends to communicate with each other. COAA would like to thank each participant to make the event a great success. COAA strives to organize more activities in this kind to build a strong platform for better communication and interactions among all COAA members as well as colleagues from China and worldwide.



2015 COAA –CMA reception

The event photos can be accessed through the following link:

<https://drive.google.com/folderview?id=0B84lf37tBzVffl9Za1pVcndRZkVYQk5yb2pETFdXODFDNENIa083RjRpVmszUWJlZnEtbkk&usp=sharing>

(Material credit to Dr. Jin Huang)

COAA-SCC 2015 Fall Career Workshop

September 26, 2015 - COAA SCC held a successful fall workshop at the University of California, Los Angeles on Sep. 26 2015. The fall workshop has been a venue for our members and friends to share information and collaborate for years. The theme for this year was career planning and development. This entire event was broadcast live online. There were more than 60 COAA members and families attended this event, with a few members joining the meeting online.



2015 COAA-SCC Fall Career Workshop

The workshop had three sessions. The opening session included introductions of participating members, greetings from COAA SCC president Dr. Hui Su, and recognition of recent award winners and previous executive committee members. It highlighted the “Remarks to Young Generations” by Professor Kuo-Nan Liou (UCLA). Prof. Liou shared his story of 40 years’ teaching and research and called upon young people to “dream the impossible dream.” Dr. Jin Huang, COAA President, joined the meeting online and talked about COAA vision and upcoming events.

Session 2 included five invited speeches by Professor Jin-Yi Yu (UCI), Dr. Jonathan H. Jiang (JPL), Professor Hengchun Ye (CSULA), Dr. Liping Yan (LADWP), and soon-to-be Dr. Mei Gao (UCLA). They shared their experiences and advices for career advancement in academia, government laboratory, civil service, private industry and entrepreneurship. Gao’s personal journey from a Ph.D student in atmospheric science to a data scientist was particularly informative for students interested in high-tech companies at the digital age. All the presentations were inspiring and especially beneficial to young scientists and students for their career planning and development.

Session 3 was a panel discussion with distinguished professors and invited speakers as panelists. Panelists emphasized the virtues of hard-working, focus, persistence, and the importance of communication skills in all types of job. Female students were particularly encouraged to pursue a

career in STEM area. During coffee break between the sessions, Dr. Jonathan H. Jiang (JPL) read a poem titled "ancient cypress" written by Prof. Yuk Yung (Caltech) to celebrate the National Day of China. The workshop was concluded with a catered dinner, during which our members had a wonderful time chatting and sharing. "I learned a lot today", Qing Yue, COAA-SCC secretary, commented at the end of the workshop.

(Materials provided by Juan Xi; Photo Credits to Qiong Zhang)

COAA 2015 Annual Family and Friend Picnic Day

September 27, 2015 - The 2015 COAA Annual Family and Friend Picnic Day took place on September 27 in the Cabin John Regional Park, Bethesda, MD. The event also coincided with the Mid-Autumn Festival, which made the event an especially memorable one.

Although weather forecast claimed chances of rain, it did not stop the attendees. More than 50 people, including many long-term and new COAA members and their families from the Washington D.C. area and visiting scholars from China, attended this event. Everyone enjoyed the gathering with old and new friends in a very relaxed atmosphere. The conversation covered a wide variety of topics of research, education, collaboration and family life. Families of COAA members participated with great passion and delicious potluck foods (one family brought home-made moon cakes), while COAA provided quasi-professional barbeque grills, fruits and beverages. The President, Dr. Jin Huang, greeted all the attendees, and briefly reported COAA's recent activities and incoming exciting events and opportunities.



2015 COAA Family Picnic Day

(Photo and news material provided by Jie Gong)

Congratulations to New AGU and AMS Fellows and Award Recipients

Congratulations to the newly elected 2015 Class of AGU Chinese-American Fellows Drs. Yanbin Wang (Univ. Chicago), Ping Yang and Guoxiong Wu, and 2016 Class of AMS Fellows Drs. Rong Fu, Xu Liang (Univ. Pitts.) and Minghua Zhang.

Prof. **Ping Yang** of Texas A&M Univ., a long-term COAA member, received the AGU Ascent Award in 2013. He is also a Fellow of AMS and the Optical Society of America. His research focuses on radiative transfer in the atmosphere and remote sensing of ice cloud properties.

Prof. **Guoxiong Wu**, also a fellow of Chinese Academy of Science, is COAA's 2014 Honorary Fellow. He is a pioneer of weather and climate dynamics, and his research focuses on the general circulation and Asian monsoon.

Prof. **Rong Fu** of Univ. of Texas at Austin is also a long-term COAA member. Her interview can be found in the last issue of COAA newsletter. Prof. Rong Fu's recent research interests cover drought and long-range water vapor transport.

Prof. **Minghua Zhang** of Stony Brook Univ., also actively involved in organizing the past two ICAOCC conferences (see the 1st page for the incoming meeting). His broad research interests involve climate modeling and development of parameterization of cloud microphysical processes, data assimilation and wave dynamics. He is also an honorary professor of Tsinghua University.

In addition to the new Chinese American Fellows, warm congratulations also go to Dr. Chunsong **Lu** of Nanjing University of Information Science and Technology on winning the AGU James R. Holton Junior Scientist Award, and Dr. **Jinwen Fan** of PNNL on receiving the AGU Atmospheric Science Ascent Award. Dr. Lu is recognized for "his original contributions in observational and modeling studies of cloud microphysics, turbulent mixing, and convective entrainment." Dr. Fan is recognized on her original and dedicated contributions to cloud-aerosol modeling.

COAA is extremely excited to observe these Chinese American scholars, some of whom are COAA members, on receiving such prestigious awards! The awards will be presented in AGU fall meeting in December 2015 at San Francisco, CA and AMS annual meeting in January 2016 at New Orleans, LA.

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 or Major Achievements (received by you, your colleagues, or students);
- Nomination of COAA Spotlight candidates;
- 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 (initiation, establishment, announcement, events, etc.)

Please send your announcements to: news@coaaweb.org

COAA Spotlight: Prof. Gabriel Lau



Prof. Gabriel Ngar-Cheung Lau is the AXA Professor of Geography and Resource Management at The Chinese University of Hong Kong (CUHK). He previously served as the lead scientist of the Climate Diagnostics Project at the Geophysical Fluid Dynamics Laboratory (GFDL) of NOAA. He was concurrently a Professor at the Department of Geosciences and Program of Atmospheric and Oceanic Sciences at Princeton University.

Professor Lau was born in Hong Kong and spent his youth there. He majored in physics at CUHK, and received the B.Sc. degree in 1974. He proceeded to pursue graduate studies at the University of Washington at Seattle, and received the Ph.D. degree in atmospheric sciences in 1978. He then went to Princeton and was associated with the research and teaching programs at GFDL throughout the 1978-2013 period.

He has authored or coauthored over 100 publications in various scientific journals, and has been designated as a Highly Cited Researcher by the ISI Web of Knowledge. He received the Clarence Leroy Mesinger Award of the American Meteorological Society (AMS) in 1990, and was elected as a Fellow of AMS in 1991. He was named the Bernhard Haurwitz Memorial Lecturer of AMS in 2015. He was a contributing author of the Fourth Assessment Report, and a lead author of the IPCC Fifth Assessment Report, which was recognized by the Nobel Peace Prize (2007).

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

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

Lau: I have always been interested in atmospheric phenomena—how they come about and how they are related to each other. I still recall the sense of excitement when, at the age of eight or nine, I first learned from elementary textbooks about the formation processes of raindrops and clouds in the sky. I was active in the Geography Club in my high school days, and was put in charge of filing the daily sequence of weather charts produced by the Hong Kong Observatory. I was fascinated by the evolution of the air pressure patterns in these charts from one day to the next, and how these changes are associated with the actual weather conditions in Hong Kong. I paid particular attention to the weather patterns corresponding to extreme events, such as passage of typhoons in the warm season, and sudden temperature drops in winter. At the undergraduate level, I chose to major in physics, since that seemed to be the fashionable thing to do in those days. But when the time came for selecting a field of study for my graduate school career, I have decided to return to the subject that has always occupied a warm spot in my heart—atmospheric sciences.

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?

Lau: Among the small contributions that I might have made to the progress of our field, I am pleased at our findings on the dynamical interactions between atmospheric disturbances on time

scales shorter than about a week and low-frequency variations with much longer periods. I am also very fortunate to be given the opportunity of designing and analyzing a large variety of experiments with state-of-the-art general circulation models. These simulations have helped to identify the mechanisms (such as the 'atmospheric bridge') responsible for the observed patterns of coupled atmosphere-ocean variability throughout the globe. The methodology developed for these studies illustrate that much could be learnt about the nature of weather and climate variability through a synthesis of observational diagnosis and numerical experimentation.

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

Lau: The mentors and colleagues who have influenced my professional life are too numerous to mention individually. But if I were to put forth the name of just one person, then it would have to be Professor *Mike Wallace* at the University of Washington. He was my principal thesis advisor, and has guided my dissertation project with tremendous foresight and patience. We kept in close contact after completion of my graduate work. Throughout the past four decades, he has always been my role model as a first-rate scientist and a teacher with utmost personal integrity. Up to the present day, I still eagerly seek his advice on my latest research ideas and other professional issues. He has shown genuine interest in my work, and is a perpetual source of encouragement and support for all my endeavors. I am eternally indebted to his kindness and generosity.

I have the good fortune of working alongside a top-notch staff at the NOAA/Geophysical Fluid Dynamics Laboratory (GFDL) for much of my career. Their enthusiasm for their work, level of professional commitment and collaborative spirit are truly exemplary. My work experience at GFDL is profoundly enriched by their presence.

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

Lau: Throughout my career at GFDL and the Chinese University of Hong Kong (CUHK), I have nurtured and maintained cordial relationships with many Chinese scientists in mainland China, Taiwan and Hong Kong. In particular, I have hosted both long-term and short-term visits of several generations of Chinese scientists ranging in seniority from academicians, professors, administrators, postdoctoral fellows to graduate students. I have also visited or attended scientific conferences/workshops at universities, national and regional weather bureaus and research institutes in mainland China, Taiwan and Hong Kong numerous times since 1984. Some of these encounters have developed into substantive collaborations leading to joint publications. In my new position at CUHK, I intend to sustain these relationships through vigorous exchange of personnel as well as data, model and computer resources. Efforts along these lines have been made in the past two years, but much more remain to be done. The capacity for atmospheric/climate research in Hong Kong is limited. We look forward to joining hand with various potential partners within the Greater China region.

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

Lau: I think climate science is a rapidly expanding discipline. The current pace of its growth is faster than when I first entered the field four decades ago. The prospects of climate change, and their impacts on society, are among the most important issues facing humanity in the twenty-first century. There is increasing demand for information on climate change at specific localities. Atmospheric scientists should be poised to take on these challenges by applying our knowledge of various facets of this complicated problem. It is also evident that the multi-dimensional nature of the climate change issue requires cross-disciplinary approaches. Atmospheric scientists must be prepared to work in areas that lie beyond the traditional boundaries of their fields. Despite the complexity and broad scope of the problem at hand, I am optimistic that new and exciting

discoveries will continue to be made in the atmospheric and climate sciences in the coming decades.

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

Lau: Be passionate about whatever that you are doing. Treat your research work as a lifelong calling. Cherish that sense of wonderment and joy whenever you find something new. Maintain a healthy skepticism about conventional wisdoms. Hone your communication skill in English speaking and writing. Always remember your Chinese roots.

Important Announcements

COAA 2015 AGU Banquet Announcement

Mark your calendar now for COAA 2015 AGU Fall Meeting Banquet! The dinner is intended to foster communication, friendship and networking among the fellow Chinese professionals and to celebrate those who are honored at AGU and COAA. To support member communication, COAA is pleased to subsidize part of the dinner cost and provide wine and beverages. Details will be announced in late October.

Time: 6:30-10 pm, December 17, 2015 (Thurs)

Location: 粤凯海鲜酒楼

(Canton Seafood and Dim Sum Restaurant, 655 Folsom St., San Francisco, CA 94107)

Cost: \$20 if register before **November 30, 2015**; \$25 onsite.

Registration at:

https://docs.google.com/forms/d/1NWiyXxMCBQ8RcxB7Qx5RLF_M837Sceon_aovph7LpY4/viewform

If you can't access google, please register at <http://doodle.com/poll/2qmqb5gautrbe2cg>

COAA 2016 AMS Reception Announcement

COAA cordially invites you to attend the COAA AMS Annual Meeting Reception. Similar to the AGU Fall Meeting banquet, this is a COAA traditional event that aims on foster communication among Chinese scholars working in the Atmospheric and Oceanic Science fields. COAA will subsidize partial cost for COAA members. The reception is tentatively set at **Monday** evening (January 11, 2016), and more details will come out in the following month through COAA news emails. Stay tuned and mark your calendar now!

COAA Solicits Applications for Best Dissertation Award 2014-2015

COAA continues 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.

COAA Calls for Your donation

COAA is a non-profit organization striving to serve the Chinese-American oceanic and atmospheric professional community. COAA relies on supports from its members, friends and sponsors. All donations are used to support activities organized by COAA to benefit its members.

COAA calls for your donation through CFC. COAA's CFC Agency Designation Number is 60027. Please help COAA sustain the excellence in services to our dear members. with prosperous future! Please go to <http://www.cfcnca.org> for your donation to COAA!

For those of you who wish to donate outside of CFC, please visit COAA official donation webpage on COAA website <http://www.coaaweb.org/donate.php> to donate through Paypal.

Donation receipts can be provided upon request if you may contact us directly after your donation. Every help from you, no matter big or small, will be sincerely appreciated!

Recent Conference, Journal and Job Announcements

- **96th AMS Annual Meeting**

Date: 10-14 January 2016

Location: New Orleans, LA

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

Special Session on US-International Partnership – Joint Session II

Co-Convener and Co-Sponsor: **COAA**

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)

Agenda:

Part 1: Jan.11, 1:30-2:30pm:

<https://ams.confex.com/ams/96Annual/webprogram/Session39769.html>

Part 2: Jan.11, 4:00-5:30pm:

<https://ams.confex.com/ams/96Annual/webprogram/Session39770.html>

Part 3: Jan.13, 4:00-5:00pm:

<https://ams.confex.com/ams/96Annual/webprogram/Session39267.html>

Part 4: Jan.14, 8:30-9:30am:

<https://ams.confex.com/ams/96Annual/webprogram/Session39673.html>

- **Call for Papers**

Advances in Meteorology

Special Issue on Hydrometeorological Hazards: Monitoring, Forecasting, Risk Assessment and Socioeconomic Responses

Hydrometeorological hazards are caused by extreme meteorological and climate events, such as floods, droughts, hurricanes, tornadoes, landslides or mudslides. They account for a dominant fraction of natural hazards and occur in all portions of the world, although the frequency, intensity and vulnerability of certain hazards in some regions differ from those in others. Severe storms, strong winds, floods and droughts develop at different spatial-temporal scales, but all can become disasters to cause fatalities and infrastructure damage, and claim thousands of lives annually worldwide. Multiple-hazards often concur in one extreme weather event. In addition to causing injuries, deaths and material damage, a tropical storm can also result in flooding and mudslides, which disrupt water purification and sewage disposal systems, cause overflow of toxic wastes, and increase propagation of mosquito-borne diseases. The increase in the frequency of extreme events due to acceleration of the global water cycle induces more risks to human settlements, especially those on floodplains and areas susceptible to landslides, in an era of rapid population growth.

Monitoring and forecasting of the occurrence, intensity and evolution of hydrometeorological extreme events have been critical for many humanitarian and government agencies in their efforts to prepare, mitigate, and manage responses to disaster to save lives and limit damages. Remote sensing and modeling are two powerful technologies for providing timely information of hazardous events. Both research areas advance rapidly to provide better understanding of causation and geophysical process of these natural hazards, while each has its own strengths and weaknesses. In addition to monitoring and short-range forecasting for rapid responses, long-range projections of future changes in extremes and hazards allow for assessing risks and therefore provide a venue to plan for adaptation and mitigation strategies. Ideally physical and social scientists would work together to find means to integrate modeling and remote sensing approaches that are complementary to each other for providing accurate forecasts, issuing timely warnings, monitoring on-going hazards, reducing vulnerabilities and building resilience for future.

We solicit high quality, original research contributions from physical, socio-economic sciences, hazard response and preparedness fields that study hydrometeorological hazards across spatial scales. More details are available at <http://www.hindawi.com/journals/amete/si/459038/cfp/>.

Potential topics include, but are not limited to:

- Remote sensing, physical or statistical modeling of hydrometeorological hazards in urban and rural environments
- Coupled and hyper-resolution hydrometeorological modeling
- Data assimilation of remote sensing and in-situ observations for improved modeling and land surface datasets
- Ensembles and probabilistic hydrometeorological forecasting
- New method of integration of remote sensing and modeling hazard information with case studies
- Characterization and communication of uncertainty of retrospective and operational modeled and remotely sensed results
- Interdisciplinary and integrated model and application results from areas of hydrology, meteorology, ecology and socioeconomics
- Hydrometeorological hazard emergency management and quantitative damage evaluation
- Vulnerability, resilience and risk assessment and management
- Assessment of socioeconomic impacts of/on hydrometeorological hazards

- **Assistant Professorship Opening at University of California at San Diego**

The Department of Anthropology at San Diego State University invites applications for a tenure-track position at the level of assistant professor in the archaeology of human-environmental dynamics beginning in Fall 2016. The successful candidate will join and contribute to the interdisciplinary Area of Excellence Center for Climate and Sustainability Studies.

Candidates must have a Ph.D. in anthropology or related field, a proven record of excellent publication, and potential for securing external funding. Specialty interests may include paleoclimate, GIS, paleoethnobotany, archaeometry, geoarchaeology, or other skills that complement existing departmental strengths and articulate with issues of climate change. Regional focus is open. Excellent teaching at the graduate and undergraduate levels is necessary, including general anthropology courses as well as specialized upper division courses. Ability to teach quantitative data analysis is desirable.

Application review will begin on September 21, 2015 and the position will remain open until filled. Applicants must apply via Interfolio.

<http://apply.interfolio.com/29934>

- **Associate or Assistant Professorship Opening at San Diego State University**

The Department of Geography at San Diego State University invites applications for a tenure-track faculty member at the Associate or Assistant level in water resources. Candidates must have a PhD in Geography or a related field and demonstrated outstanding research potential, with interests that could include water resource systems analysis, drought mitigation, human and societal dimensions of water resources, sociohydrology, water security, and/or climate and land use impacts on water resources. Ability to teach and conduct research at the intersection of human and physical geography preferred. Demonstrated excellence in teaching, scholarship and commitment to funded research activity is required. The candidate will have an interest in teaching graduate and undergraduate courses in water resources, hydrology, and/or water policy and management, and in developing undergraduate and graduate curriculum in watershed science and water resources. The hire will advise students in the Department's Master's Program in Watershed Science and the joint SDSU-UCSB PhD in Geography. The successful candidate will join and contribute to the interdisciplinary Area of Excellence, Blue Gold: Mitigating Water Scarcity, which includes three additional new faculty hires in water treatment engineering, public health, and aqueous geochemistry. Anticipated start date for the position is Fall 2016.

SDSU is a large, diverse, urban university and Hispanic-Serving Institution with a commitment to diversity, equity, and inclusive excellence. Our campus community is diverse in many ways, including race, religion, color, sex, age, disability, marital status, sexual orientation, gender identity and expression, national origin, pregnancy, medical condition, and covered veteran status. We strive to build and sustain a welcoming environment for all. SDSU is seeking applicants with demonstrated experience in and/or commitment to teaching and working effectively with individuals from diverse backgrounds and members of underrepresented groups.

Applicants should apply via Interfolio at <http://apply.interfolio.com/30391>. Applications received by October 1, 2015 will receive full consideration.

The position will remain open until filled. For additional information see <http://geography.sdsu.edu/About/jobs.html> or contact the Chair of the Search Committee, Trent Biggs, tbiggs@mail.sdsu.edu.

- **Assistant Professorship Opening at San Jose State University**

Specialization: Western US Weather and Precipitation

Job Opening ID (JOID): 23434

Rank: Assistant Professor, Tenure-track

Applicants must have completed a PhD in Atmospheric Science or a closely-related field by the start of the appointment. Applicants should have awareness of and sensitivity to educational goals of a multicultural population as might have been gained in cross-cultural study, training, teaching and other comparable experience.

The successful candidate will be expected to teach a range of courses that over time will include General Education, and undergraduate (BS) and graduate (MS) courses in Meteorology and Climate Science. The successful candidate will teach classes in the areas of synoptic and mesoscale meteorology as they relate to precipitation in the western US, as well as classes in the broad area of impacts of climate change on western precipitation patterns. The successful candidate will also have the opportunity to develop courses in his/her area of expertise. Innovation in teaching is strongly encouraged at SJSU. The successful candidate will be expected to develop a research program involving both graduate and undergraduate students, and also participate in advising, committee, and departmental outreach activities. Candidate must address the needs of a student population of great diversity – in age, cultural background, ethnicity, primary language and academic preparation – through course materials, teaching strategies and advisement.

Salary Range: Commensurate with qualifications and experience. Starting Date: August 22, 2016

For additional information, contact Dr. Alison Bridger, Chair at Alison.bridger@sjsu.edu. Please include Job Opening ID (JOID) on all correspondence.

- **Cluster Hiring of Five Faculty Positions at University of Arizona**

To respond to global challenges in Earth, environmental, and planetary science, The University of Arizona announces coordinated hiring of five faculty in Earth system remote sensing to establish the Earth Dynamics Observatory (EDO). EDO will combine mission operations and planetary science capabilities of the Lunar and Planetary Lab with remote sensing research in Earth and environmental programs and instrument development. EDO faculty will contribute to interdisciplinary research and education with the goals of instrument/mission development and leading new applications research. We welcome applications for EDO positions focused in five areas. Candidates may seek appointments in one or several departments/colleges within UA. EDO seeks faculty who promote diversity in research, education, and outreach, and who have experience with a variety of collaborative, teaching, and curricular perspectives. More information and details of application processes are available at: www.geo.arizona.edu/EDO

Instrument/Mission Leadership: We seek a scientist with experience in instrument and/or mission development and leadership in Earth remote sensing for an open-rank position to lead

collaborative projects across a variety of platforms, methods (multi/hyperspectral, radar, laser, gravity, etc.), and applications.

Remote Sensing Land-Water-Climate/Geospatial Analysis: We seek a scientist with expertise in remote sensing, modeling, and data analysis of land surface, water, resource, and hazards assessment using active and passive source methods, multi- and hyperspectral data, LiDAR, and other technologies.

Atmospheric remote sensing: We seek a scientist with expertise in atmospheric observing systems including passive and active sensing of precipitation, clouds, water vapor, aerosols, and trace gases, development and application of retrieval algorithms and methods or dual-polarization Doppler radar measurements, and data assimilation.

Comparative planetology: We seek a scientist with expertise in remote sensing of planetary surfaces, atmospheres, and/or interiors with relevance to multiple planets (including exoplanets) or solar system objects and to astrobiology, to provide context for understanding the Earth.

Satellite Geodesy: We seek a scientist with expertise in space geodetic techniques across a range of geophysical, hazards, and resource applications including gravity, GPS, InSAR, LiDAR, and radar altimetry, to understand earthquakes, volcanoes, tsunamis, tectonics, mantle flow, glacier dynamics, sea level, and/or Earth's rotational dynamics.

- **Two Assistant Professorship Openings at Boston University**

Position #1: Remote Sensing

The Department of Earth & Environment at Boston University invites applications for a tenure-track assistant professor in remote sensing, beginning on July 1, 2016. We seek candidates that build upon and expand our existing remote sensing group, which is focused in the optical domain. We welcome applicants with expertise in any domain of remote sensing, but encourage applications from candidates with expertise in active or passive microwave, InSAR, LiDAR, thermal, or hyperspectral remote sensing, including airborne remote sensing from aircraft or unmanned aerial vehicles. The scientific focus for this position is open, and includes any thematic area related to physical, chemical or biological function of the earth system, including processes in oceans, the atmosphere, or on land. We particularly welcome candidates whose expertise complements our growing program in climate change science. Opportunities exist for collaboration in many domains, including land change science, natural resource management, crustal and land surface processes, terrestrial ecology, hydrology, and marine sciences.

The successful applicant will be expected to supervise graduate research in Ph.D. programs, teach at all levels in the Earth & Environment curriculum, and maintain an externally funded research program. We seek applicants whose research complement strengths in the Department and around the University. For more information about the Department, see <http://www.bu.edu/earth>. A Ph.D. at the time of appointment is required.

Please apply online at <https://academicjobsonline.org/ajo/jobs/6256>, including a curriculum vitae, a cover letter, a statement of research and teaching interests, and the names and addresses of at least three referees. Should you have questions about the position, please feel free to contact Mark Friedl, Search Committee Chair, Department of Earth and Environment, Boston University, 685 Commonwealth Ave, Boston MA 02215; email: earth@bu.edu. Review of applications will begin on Nov 10, 2015. Women and underrepresented minorities are particularly encouraged to apply.

Boston University is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law. We are a VEVRAA Federal Contractor.

Position #2: Human Dimensions of Global Change

The Department of Earth & Environment invites applicants for a tenure-track assistant professor position focusing on the nexus of human activity and global change, beginning on July 1, 2016. We seek a social scientist whose research and teaching apply theory and methods to enhance understanding of the coupling between human and natural systems typified by the energy-water-land nexus and the climate-water-agriculture nexus. Our interest is in scholars who are rigorously quantitative and who can integrate additional qualitative or mixed-methods approaches into their research. We are particularly looking for demonstrated potential for interdisciplinary collaboration—particularly with natural scientists—and complementarity with the department's strengths in energy and environmental analysis, integrated assessment modeling, remote sensing and GIS, and biogeosciences.

The successful applicant will be expected to develop a strong research program, supervise Ph.D. students, and teach in the department's undergraduate and graduate programs. Myriad opportunities for collaboration exist on campus, including the Frederick S. Pardee School of Global Studies and associated regional centers, Center for Remote Sensing, Questrom School of Business, and Pardee Center for the Study of the Longer Range Future. For more information about the Department, see <http://www.bu.edu/earth>. A Ph.D. at the time of appointment is required.

Please apply online at <https://academicjobsonline.org/ajo/jobs/6257>. Applications should include (1) a curriculum vitae, (2) a cover letter (3) a statement outlining synergies between the applicant's research and teaching and ongoing activities within the Department, (3) one representative publication, and (4) names and contact information of at least three referees. Should you have questions about the position, please feel free to contact Ian Sue Wing, Search Committee Chair, Dept. of Earth and Environment, Boston University, 685 Commonwealth Ave, Boston MA 02215; email: earth@bu.edu. Review of applications begins November 15, 2015. Women and underrepresented minorities are especially encouraged to apply.

Boston University is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law. We are a VEVRAA Federal Contractor.

- **Postdoctoral Fellowship Openings at CUHK**

The Institute of Environment, Energy and Sustainability (IEES) of The Chinese University of Hong Kong is dedicated to enhancing scholarship, education, research and knowledge transfer in various areas related to the environment and energy, with particular emphasis on issues in the Hong Kong and East Asian regions. IEES is looking for several Postdoctoral Fellow(s) to participate in a research project on the impacts of climate change on air pollution and food production, with a focus on the implications for human health in especially the East Asian region during the coming decades.

Applicants should have a relevant PhD degree or equivalent, and expertise and interest in at least one of the following areas:

- Application of a hierarchy of climate and atmospheric chemistry models for simulating air quality at different scales for health impact evaluation
- Health impact modeling, and evaluation of model output using air quality and health data
- Exposure studies based on management and analysis of air quality data collected at monitoring sites
- Emission inventory compilation for past years and future scenarios for long-term air quality model simulations
- Implementation of an adjoint model to estimate the sensitivity of pollutants to climate and atmospheric composition
- Earth system model development to better represent soil, vegetation and crop physics and biogeochemistry, and to predict their responses to atmospheric changes
- Statistical analysis and diagnostics of observed and modeled data to project the future evolution of agriculture, air quality and climate in an integrated framework
- Model development for alternative, sustainable agricultural methods and examine their environmental and yield benefits

The appointee(s) will conduct research in the above area(s) under the supervision of Professor Gabriel Ngar-cheung Lau and/or other faculty affiliates of IEES*, and perform other duties as assigned.

Appointment will be made on contract basis for two years commencing January 2016 or as soon as practicable, renewable subject to mutual agreement.

Applications and enquiries could be directed to Professor Gabriel Lau at gabriel.lau@cuhk.edu.hk. Applicants should submit their curriculum vitae (with list of publications and the name and address of three referees), as well as a one-page statement of research interests.

* Other primary supervisors include:

Man-Nin Chan (Earth System Science Program) - mnchan@cuhk.edu.hk

Kin-Fai Ho (School of Public Health) - kfho@cuhk.edu.hk

Amos P. K. Tai (Earth System Science Program) - amostai@cuhk.edu.hk

Francis C. Y. Tam (Earth System Science Program) - Francis.Tam@cuhk.edu.hk

Tsz-Wai Wong (School of Public Health) - tw Wong@cuhk.edu.hk

Steve H. L. Yim (Geography & Resource Management) - steveyim@cuhk.edu.hk

- **Postdoc-Doctoral Scientist Position Opening at UMBC**

The Joint Center for Earth Systems Technology (JCET) is seeking a Research Faculty appointment at the Post-doctoral Scientist level. JCET is a Cooperative Agreement between the University of Maryland, Baltimore County (UMBC) and the NASA Goddard Space Flight Center (GSFC) to collaborate in research programs in the Earth, information, and instrumentation sciences. The successful candidate will work at UMBC in the Physics Building, located in Catonsville, Maryland. The initial appointment will be for 1 year period, with a possibility for extension of 1-2 years depending on satisfactory performance and the availability of funding.

Research Activity: A Postdoctoral Research Associate is sought to evaluate the simulations of warm liquid-phase cloud properties in NCAR's Community Atmosphere Model (CAM) through comparisons with ground-based observations from DoE's Atmospheric Radiation Measurement

(ARM) program and NASA's A-Train satellite constellation (e.g., CloudSat, CALIPSO and MODIS). Representative model evaluation activities may include: running global CAM simulations with emphasis on clouds under current and future climate scenario, simulate satellite observations from CAM outputs using the online or offline COSP (CFMIP Observation Simulator Package) simulator, statistical comparison of CAM-COSP simulations with ARM and satellite cloud products. The incumbent will have opportunities to collaborate experts from various disciplines at UMBC, Pacific Northwest National Laboratory and NASA Goddard Space Flight Center.

Qualifications: The successful candidate should have a recent PhD degree in atmospheric sciences or physics with a strong background in cloud physics and microphysics. Preference will be given to candidates with experiences in GCM cloud simulations and cloud parameterization scheme development, as well as ability to handle large datasets from ARM and satellites for model evaluation. Familiarity with FORTRAN 90 and UNIX/Linux systems and parallel computing required. Excellent oral and written communication skills are essential. This position will be based at UMBC's Physics Department and selection is contingent upon possessing appropriate visa status to meet requirements for employment.

For best consideration, submit electronically a cover letter indicating position UMBC-15-03, a complete curriculum vitae,) and names and telephone numbers of three references by November 20, 2015 (application materials for this position will be accepted until position is filled) to: Danita Eichenlaub, (eichenla@umbc.edu), Administrative Director, JCET, University of Maryland, Baltimore County, Suite 320, 5523 Research Park Drive, Baltimore, MD 21228. UMBC is an Equal Employment/Affirmative Action employer.

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