



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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AN Zhisheng Elected Foreign Associate of National Academy of Sciences

May 04, 2016 Wednesday– **AN Zhisheng**, Professor of Institute of Earth Environment of the Chinese Academy of Sciences, is elected Foreign Associate of National Academy of Sciences (NAS), according to an announcement by NAS on May 3, 2016.



AN Zhisheng, Member of Chinese Academy of Sciences (Image by IEECAS)

The National Academy of Sciences announced the election of 84 new members and 21 foreign associates from 14 countries in recognition of their distinguished and continuing achievements in original research. Those elected this year bring the total number of active members to 2,291 and the total number of foreign associates to 465. Foreign associates are nonvoting members of the Academy, with citizenship outside the United States.

Prof. **AN Zhisheng**, member of the Chinese Academy of Sciences, is a world-known scientist in geosciences. He is a leading researcher in Asian monsoon dynamics and global climate change, with a focus on the evolution of Asian monsoon and the mechanisms which drive its dynamics. With his pioneering work based on loess-paleosol sequences and its climatic significance, he proposed the “monsoon control theory” which hypothesized that East Asian environmental changes since late Cenozoic were largely controlled by monsoon variations. His multidisciplinary research from classical Quaternary geology to monsoon dynamics connecting the geology and atmosphere science is considered one of the most important achievements in global change research.

The National Academy of Sciences is a private, nonprofit institution that was established under a congressional charter signed by President Abraham Lincoln in 1863. It recognizes achievement in science by election to membership, and -- with the National Academy of Engineering and National Academy of Medicine -- provides science, technology, and health policy advice to the federal government and other organizations.

(Source: http://english.cas.cn/newsroom/news/201605/t20160504_162747.shtml)

Prof. Amos P.K. Tai Receive the WMO Research Award for Young Scientists

September 1st 2015 Tuesday – Prof. Amos P.K. Tai of the Earth System Science Programme at The Chinese University of Hong Kong (CUHK) received the United Nations' World Meteorological Organization (WMO) Research Award for Young Scientists 2015 from Mr. C.M. Shun, Director of the Hong Kong Observatory and Permanent Representative of Hong Kong, China with WMO today (1 September 2015). This prestigious award was conferred on him in recognition of a scientific paper entitled “*Threat to future global food security from climate change and ozone air pollution*” that he published in the Journal of “*Nature Climate Change*”. Professor Tai is the first Hong Kong scientist receiving the Award.

In the study for which Professor Tai is receiving the award, Professor Tai found that warming alone will reduce global agricultural production by more than 10% by year 2050, but the combined effect of global warming and air pollution can be even more detrimental to crop yields. In the worst-case scenario, the undernourished population in developing countries can climb up by about 50% by 2050. Nonetheless, strict controls on air pollution can partially offset the adverse impacts of climate change, leading to a smaller combined global crop production decrease. According to the Food and Agriculture Organization of the United Nations, the worldwide demand for food is expected to double by 2050, but human beings' ability to produce enough food is severely challenged by climate change. Professor Tai's findings show that the interactive effect of global warming and air pollution can in particular significantly threaten global food production, suggesting that policy makers should take both factors into account in addressing the imminent global food crisis.



In presenting the Award to Professor Tai on behalf of WMO, **Mr. Shun** said, 'Professor Tai's receiving the "WMO Research Award for Young Scientists" is an honour for the meteorological community in Hong Kong. Professor Tai's study on global food security is a timely reminder to us that the impacts of climate change are highly relevant to our daily life. Under the influence of global warming, high temperature records in Hong Kong have been broken rather frequently in recent years. Actions to reduce greenhouse gas emissions and to make our society more resilient to climate change effects must be taken without delay. The Observatory will spare no efforts to undertake researches on climate change and support local institutions on related projects. My gratitude goes to Professor Tai and other fellow scientists for their research results which translate into science-based climate information and services for all decision makers and stakeholders to carry out the mitigation and adaptation measures. Food security, water resources, disaster risk reduction, health and energy are the priorities of WMO in providing these climate services.'

Professor Tai remarked, 'I am honored to be a recipient of the WMO Research Award for Young Scientists this year. I wish to thank members of my research team and my collaborating partners for their great work and support over the years. I would also like to express my sincere thanks to the Hong Kong Observatory, through which the nomination to WMO was successfully made. We will strive to continue our studies on the consequences of global environmental change, so that policy makers can be better informed to formulate optimal strategies for a sustainable future.'

About Prof. Amos P.K. Tai

Professor Tai is an Assistant Professor in the Earth System Science Programme of the Faculty of Science at CUHK. His research examines the complex interactions between climate, atmospheric chemistry and the biosphere, focusing on aspects that directly impact human society such as air pollution, climate change, agriculture, and public health. Before he joined CUHK, Professor Tai was a Croucher Postdoctoral Fellow at MIT, where he also obtained his BSc degree. He obtained his PhD in Environmental Science and Engineering from Harvard, where he examined the effects of climate change on particulate matter air quality. Aside from the WMO Research Award for Young Scientists, Professor Tai has received various other accolades, including Early Career Award from Research Grants Council (Hong Kong) in 2014-2015; Faculty Exemplary Teaching Award in 2014; Young Scientist Award from iCACGP in 2010; Harvey Fellowship from the Mustard Seed Foundation in 2009-2012; Harvard University Certificate of Distinction in Teaching in 2008, 2009; Howard T. Fisher Prize for Excellence in GIS in 2008 amongst others.

About WMO Research Award for Young Scientists

Since 1970, the WMO has been granting the 'WMO Research Award for Young Scientists' to young scientists as a means of encouragement for their outstanding research work in all fields of meteorology and hydrology. In the past 45 years, 42 awards have been granted with the winners coming from 30 different countries. The WMO is the United Nations' agency for weather, climate, and water.

(Source: <http://public.wmo.int/en/media/news/research-award-young-scientists-2015>)

COAA Spotlight: Dr. Fuqing Zhang

Dr. **Fuqing Zhang** is a full professor with tenure in the Department of Meteorology at the Pennsylvania State University, with a joint appointment in the Department of Statistics, along with an endowed position as the E. Willard & Ruby S. Miller Faculty Fellow at the College of Earth and Mineral Sciences at the Pennsylvania State University. He is also the founding director of the Penn State Center on Advanced Data Assimilation and Predictability Techniques (ADAPT). He has made significant contributions to the fundamental understandings of atmospheric predictability, to the underlying dynamics and uncertainties that limit the accuracy of prediction at different scales, and to the design of advanced data assimilation techniques with innovative uses of radar and satellite observations that can significantly improve the analysis and forecast of severe weather and tropical cyclones.



Dr. Fuqing Zhang and his research group and visitors 08/17/2015

Dr. Zhang earned his B.S. and M.S. from Nanjing University, China in 1991 and 1994, respectively, and his Ph.D. in 2000 from North Carolina State University. He was a postdoctoral fellow at the National Center for Atmospheric Research in 2000-2001. He spent seven years as an assistant and then associate professor at Texas A & M University before moving to Penn State University as a full professor in 2008. He also held various visiting scholarship appointments at various academic and research institutions including Peking University, Nanjing University, National Center for Atmospheric Research, the US Naval Research Laboratory, NOAA Hurricane Research Division, the Chinese State Key Laboratory of Severe Weather in Beijing, China, and Laboratoire de Meteorologie Dynamique, École Normale Supérieure in Paris, France. Most recently, he was selected as the 2015 Rossby fellow in the International Meteorological Institute at Stockholm University, Sweden. He also just completed his 2015 fall sabbatical as a Houghton Lecturer at Program in Atmosphere, Ocean and Climate of MIT, for delivering a series of lectures on atmospheric predictability, data assimilation and dynamics.

Dr. Zhang has authored/co-authored nearly 200 peer-reviewed journal publications that have a total of more than 4000 citations and an h-index of 36 according to ISI Web of Science (over 5000 by Google Scholar with an h-index of 43). He has given over 200 keynote or invited talks at various institutions and professional meetings. He also served on various review or advisory panels for numerous organizations which include NSF, NASA, NOAA, ONR, AMS, and National Academies. He has organized numerous national and international conferences and workshops on atmospheric gravity waves, data assimilation, atmospheric predictability, and the use of BigData

for weather and climate monitoring and prediction. He has also served as editor of several lead professional journals including *Monthly Weather Review*, *Science China*, *Atmospheric Science Letter*, *Journal of Meteorological Research*, and *Computing in Science & Engineering*. He is one of the three editors of the newest edition of the *Encyclopedia for Atmospheric Sciences* (6 volumes, 2998 pages), the leading reference in our field.

Dr. Zhang has received numerous awards for his research and service. Notably, in 2007, he received the Outstanding Publication Award from the National Center for Atmospheric Research. In 2009, was the sole recipient of the American Meteorological Society's 2009 Clarence Leroy Meisinger Award "for outstanding contributions to mesoscale dynamics, predictability and ensemble data assimilation." Most recently, he received the 2015 American Meteorological Society's Banner I. Miller Award "for valuable insights into incorporating real-time airborne Doppler radar measurements via ensemble data assimilation, leading to improvements in forecasts of tropical cyclone track and intensity." He is also an elected fellow of the American Meteorological Society (class 2015).

Dr. Zhang's success in atmospheric dynamics and predictability inspires us young scientists to embrace the Big data era and explore the new opportunities. We are fortunate to have this opportunity to interview **Prof. Zhang** and have him sharing his experience, visions and suggestions with COAA members.

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

Zhang: I did not choose atmospheric science as my major but was assigned to Meteorology in 1987. I was very interested in the ever changing weather grown up as a farmer's boy in a small island of the Yangtze River.

Q: Which accomplishments are you most proud of in your professional life, including your group achievements?

Zhang: It is hard to choose one accomplishment. Our team have made major contribution to the fundamental understandings of atmospheric predictability, to the underlying dynamics and uncertainties that limit the accuracy of prediction at different scales, and to the design of advanced data assimilation techniques with innovative uses of radar and satellite observations that can significantly improve the analysis and forecast of severe weather and tropical cyclones.

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

Zhang: I have benefited tremendously from my graduate mentors Professor Quanrong Jiang for my master's degree at Nanjing University and Dr. Steven Koch for my Ph.D. (he is now the director of US National Severe Storm Lab), as well as my postdoctoral mentors Drs. Richard Rotunno and Chris Snyder at National Center for Atmospheric Research (NCAR). I also benefited greatly from interactions and collaborations with and informal mentorships from many others in our field that would be hard for me to list them all here.

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

Zhang: I am actively collaborating and interacting with a few dozen scientists in China, with more than 30 of them as a visiting scholars and students in our research group. I pay at least one annual visit to China usually visiting several institutions at a time. I also serve as formal or informal mentors to several institutions and many young Chinese-speaking scientists in Asia.

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

Zhang: Take advantage of the Big Data and Big Computation using advanced statistical and numerical techniques to better monitor and predict the weather and climate, both deterministically and probabilistically.

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

Zhang: Be open-minded, seek advice, think ahead, take initiatives and risks, and work hard.

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 Solicits Applications for Best Dissertation Award 2016

COAA starts to accept applications for the 4th 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, 2016**, and the awardee(s) will be announced at AMS annual meeting in January 2017.

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, 2015** and **September 30, 2016** 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.

Recent Conferences, Job Announcements & Scholarships

- [The 7th International Conference on Atmosphere, Ocean, and Climate Change from COAA-CMS Beijing](#)

The Chinese-American Oceanic and Atmospheric Association (COAA) and the China Meteorological Society (CMS) are pleased to announce their cooperation in organizing the 7th International Conference on Atmosphere, Ocean, and Climate Change this summer. The conference will be co-sponsored by China Meteorological Administration (CMA), China State Ocean Administration (SOA), Chinese Academy of Sciences/Institute of Atmospheric Physics (CAS/IAP), and China National Natural Science Foundation (NSFC), and participating universities (TBD). The conference will be held at the CMA campus in Beijing on July 27-30 2016. This series of conferences has been a main gathering event of Chinese American oceanic and atmospheric scientists and their colleagues and have been held in U.S., Taiwan, Hong Kong and mainland China.

The list of scientific themes has been updated, which includes the following 15 topics.

1. Climate Change, Impact and Adaptation
2. Climate Modeling, Prediction and Projection
3. Aerosol, Pollution and Climate
4. Cloud and Radiation Budget
5. Atmospheric Composition (observations, analysis, and modeling)
6. Data Assimilation and Weather Prediction
7. Precipitation and Hydrology
8. Ocean-Atmosphere Interaction
9. Oceanography (Physics, Chemistry and Biology)
10. Monsoon and Tropical Meteorology
11. Severe Weather and Typhoon
12. Land-Atmosphere Interactions
13. The Atmosphere, Ocean and Climate of the Pearl Delta and South China Sea
14. Food-Energy-Water Nexus
15. Satellite Meteorology/Oceanography, Remote Sensing, and in-situ Measurements

The online conference registration is now **OPEN**:

<http://www.coaaweb.org/COAA2016/registration.html>. The due date for the online registration is **06/30/2016**. The secure online registration fee payment through Paypal is also available on the same page. The deadline for the online early bird registration rate is 06/30/2016 (non-student rate \$300; student rate \$150). On-site registration option is also available at the conference (07/27-07/30/2016) with non-student rate \$350 and student rate \$200.

For more information please go to <http://www.coaaweb.org/COAA2016> or contact: coa2016@coaaweb.org.

• 中国科学院大气物理研究所人才招聘启事

中国科学院大气物理研究所是中国科学院直属事业单位，是中国现代史上第一个研究气象科学的最高学术机构，目前已发展成为涵盖大气科学领域各分支学科的大气科学综合研究机构。研究所致力于研究和探索地球大气中和大气与周边环境相互作用的物理、化学、生物、人文过程的新规律；提供天气、气候和环境监测、预测和调控的先进理论、方法和技术；造就本领域的一流人才；服务于经济和社会的可持续发展和国家安全。

为进一步提升研究所在相关研究领域的自主创新能力，促进重大项目和重要学科方向的部署与人才培养相结合，加强创新型人才的凝聚与培养，不断优化人才队伍结构，特面向海内外诚聘英才杰出人才，具体如下：

一、招聘岗位及条件

(一) 学术帅才

通过中组部“千人计划”、或中国科学院率先行动“百人计划”A类岗位招聘。要求专业领域为大气所弱势领域和方向，优先考虑如下领域和方向：

1. 全球和区域数值天气预报
2. 雷达、气象卫星资料同化
3. 气候模式物理参数化
4. 应用气象学
5. 气候环境变化与适应
6. 大气污染与健康影响

(二) 技术英才

从事大气科学相关工程技术类研发，或从事重大科学装置建设、仪器设备研发、模式研发等中青年杰出人才。通过中国科学院率先行动“百人计划”B类岗位招聘。专业领域符合下列方向者，优先考虑：

1. 数值天气预报模式和资料同化技术研发
2. 高性能计算和耦合框架技术研发
3. 气候服务技术研发
4. 大气探测技术与装备研发
5. 大气边界层理化结构探测与建模技术

(三) 青年俊才

通过中组部“青年千人”或中国科学院率先行动“百人计划”C类岗位招聘。

二、待遇及支持措施

(一) 学术帅才

1. 入选国家“千人计划”长期项目或中国科学院率先行动“百人计划”A类（学术帅才）后，享受国家或科学院规定的相应待遇（具体咨询联系人）。

2. 研究所聘为研究员二级岗位。
3. 研究所提供100万科研启动经费和科研配套经费。
4. 保证办公和科研试验用房，给予培养研究生资格。
5. 聘期内，提供人才周转住房（按先后顺序排队）。
6. 协助解决子女入学（托）。
7. 收入按照研究所相关规定，具体可咨询联系人。

(二) 技术英才

1. 入选中国科学院率先行动“百人计划”B类（技术英才）后，享受科学院规定的相应待遇。
2. 聘为正研级高工岗位。

3. 研究所提供 70 万科研启动经费和科研配套经费。
4. 保证办公和科研试验用房，给予培养研究生资格。
5. 聘期内，提供人才周转住房（按先后顺序排队）。
6. 协助解决子女入学（托）。
7. 收入按照研究所相关规定。具体可咨询联系人。

(三) 青年俊才

1. 入选国家“青年千人”计划或中国科学院率先行动“百人计划”C类（青年俊才）后，享受国家或科学院规定的相应待遇。
2. 入选国家“青年千人”者聘为研究员岗位，入选“百人计划”C类聘为副研究员岗位。
3. 入选国家“青年千人”者，研究所提供 40 万科研启动经费和科研配套经费。
4. 保证办公和科研试验用房，给予培养研究生资格。
5. 聘期内，提供人才周转住房（按先后顺序排队）。
6. 协助解决子女入学（托）。
7. 收入按照研究所相关规定。具体可咨询联系人。

三、应聘材料

1. 填写《高层次人才基本情况简介》；
2. 国内外的任职情况证明、学位证书复印件等；
3. 学术帅才和青年俊才应聘者，全部发表论文目录（注明第一作者和通讯作者）和引用情况的检索证明，以及 5 篇代表性论文全文；
4. 技术英才应聘者，全部专利与成果转化情况证明材料；
5. 本人认为有必要提供的其它相关材料。

四、遴选程序

研究所先根据应聘材料决定是否同意申报“千人计划”、“青年千人”以及中国科学院“百人计划”。如果同意，将协助应聘者申报上述人才计划，申报成功后予以聘用。

五、联系方式

1. 有意者请将应聘材料电子文档发送至中国科学院大气物理研究所人事处，E-mail: HR@MAIL.IAP.AC.CN
2. 联系人：王立志 +86-10-82995140
3. 通讯地址：北京市朝阳区华严里 40 号，100029
4. 网址：<http://www.iap.cas.cn>

Call for nomination/volunteer of COAA Spotlight

“COAA Spotlight” is a column featuring highly successful Chinese scholars and their groups working in the atmospheric, oceanographic or land sciences. This column is designed to share successful senior scientists’ insights and experiences with the COAA members and friends (especially for early-career scientists or students). We now call for the nomination/volunteer for the COAA newsletter to be released in December 2016. You are more than welcome to inform us if you want to be interviewed, or nominate your candidate. Although scientists working aboard with international recognitions will be considered with higher priority, scientists from mainland China, Taiwan, Hongkong, and Macau are also highly encouraged to participate.

- **Postdoctoral Position in Atmospheric Circulation at Chinese University of Hong Kong (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 Fellows to participate in research projects on the impacts of climate change on atmospheric circulation, air pollution and food production, with a focus on the implications for the environment and human health in the East Asian region during the coming decades.

Applicants should have 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 of pollutants to climate and atmospheric composition
- 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, atmospheric circulation and extreme weather events in an integrated framework

The appointee 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 May 2016 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.

- **Yuxiang Young Scholar Award**

The Chinese American Oceanic and Atmospheric Association (COAA) is a non-profit organization founded in 1993 to facilitate networking among oceanic and atmospheric professionals, promote interests and professional excellence, and provide technical exchange and career opportunities.

The Beijing Hongtu Aerospace Information Technology, LLC (Beijing Hongtu) was established in 2008. It is a high-tech enterprise focusing on satellite remote sensing and navigation technology, research and application. Its business services cover cartographic, land survey, mining exploration, oceanic and atmospheric sciences, resource/environmental monitoring, disaster monitoring, and national security. Facing the rapid evolution of satellite remote sensing application service market in China and abroad, Beijing Hongtu, under the leadership of **Dr. Yuxiang Wang**, has devoted to innovative technology development and superior software management. Beijing Hongtu is becoming a top provider of satellite remote sensing services in the world with its steady growth of core capabilities and strong competitiveness.

Currently, climate change and environmental pollution are major issues of global concern. To raise the attention of the public to the environmental issues, nurture interests of students in oceanic and atmospheric sciences and attract young talents to join the force, COAA and Beijing Hongtu proudly launch the Yuxiang Young Scholar Award. The award aims to recognize outstanding young scholars in oceanic and atmospheric sciences and related fields. It also provides financial support and career opportunities for the awardees in order to promote further development of oceanic and atmospheric sciences and related fields.

1. Eligibility and fields

Scholars of 35 years old or younger, or within five years of obtaining Ph.D., with outstanding academic achievement and innovative research in the fields including but not limited to: Meteorology, Atmospheric Sciences, Space Sciences, Oceanic Sciences, Satellite Remote Sensing, and Hydrology. Each person can apply three times but can be awarded only once.

2. Application materials

- (1) Curriculum Vitae with bibliography
- (2) Statement of research achievements
- (3) Three most important publications and/or patents, technology certificates
- (4) Two letters of recommendation

3. Award amount

Depending on the number of applications and qualifications, 3-4 awards of \$1000-\$3000/each will be issued every year

4. Selection procedure

- (1) Applicants submit all application materials before the deadline: May 31, 2016.
- (2) A committee consisting of experts in the relevant fields reviews the applications. Qualified candidates will be invited for interviews.
- (3) Final winners will be determined after the interviews. Selection results will be announced in mid-July.

Pease submit the applications to COAASCC.EC@gmail.com before the deadline.

Local Organizer: Chinese American Oceanic and Atmospheric Association, Southern California Chapter (COAA SCC) Contact: Dr. Yu Gu, Email: gu@atmos.ucla.edu