

PART X

Other Work of NSFC

Shuangqing Forum

Shuangqing Forum is a high level strategic academic exchange platform sponsored by NSFC to promote interdisciplinary studies and innovative culture, and create favorable environment for research. Focusing on science fund management, the themes of the Forum mainly concerns major scientific problems with interdisciplinary nature in science frontier or related to the demand of national strategic development, the major basic science issues in interdisciplinary and disciplinary integration, and major policy and management issues in the development and improvement of science funding system.

Shuangqing Forum adheres to the principle of "hundred flowers bloom and hundred schools of thought", strives to create rigorous and truthful atmosphere for equal discussions, promote academic critics and clash of ideas. Compared with general academic discussions, Shuangqing Forum has the following features: (i) Innovative form. With innovative culture as its main task, exploring means of academic exchange stimulating innovative ideas; (ii) Effective result. Aiming at science funding management to select topics; (iii) Interdisciplinary contents. Each forum organized by more than two different departments; (iv) Standardization. With clear position and procedures of meetings, ensuring good display of forum output.

In 2013, Shuangqing Forum sponsored 17 sessions (from the 89th to the 105th). The total number of participants reached 1051, among which there were 100 members of CAS and CAE, and 60 foreign scholars. NSFC scientific departments held 15, and administrative bureaus held 2 sessions. There were 6 sessions on major scientific problems, which were: "Precision Measurement Physics and its Applied Basic Research", "Land-air Coupling Process in Tibetan Plateau and its Effect on Global Climate", "Research on Basic Scientific Problems in Advanced Engine Combustion", "Basic Research on Network Based Water Acoustic Detection, Communication and Navigation", "Neural Functional Imaging and its Application in Major Disease", "Environmental Change and Bio evolution in Key Geological

Periods". There were 5 sessions on deep level scientific problems related to strategic needs of national development, which were: "Challenging Problems in Big Data Technology and Application", "Studies on the Food Safety Monitoring and Governing Policies in China", "Frontier Studies on Mechanical Electrical Coupling of High Precision Electronic Equipment", "Frontier Scientific Problems of Bird Flu", "Scientific Basis of Effective and Clean Use of Rare Earth Resources". There were 4 sessions on development strategy for emerging disciplines, which were: "Key Scientific Problems in Aging Mechanism and Diseases", "Immunological Regulation of Animal Diseases", "Discussions of Bio Clock and its Frontier Scientific Problems", "Discussions on the Science and Key Technologies of Radio Astronomy". There were 2 sessions on major policy and management issues related to the development and improvement of science funding systems, which were: "Problems and Challenges in the Management of the Science Fund", "Open and Sharing of Research Resources in International Cooperation.

Shuangqing Forum provided a platform for exchange and cooperation among researchers in different disciplines, promoted clash of academic ideas, enabling science funding managers learn sciencefrontier problems and research strategies, provided new ways of dialogue between science funding managers and scientists, and put forward practical policy suggestions for science funding and management. For example, the themes of the following sessions were included in NSFC's Major Research Plan, they were: the 90th session "Precision Measurement Physics and its Applied Basic Research", the 91st session "Land-air Coupling Process in Tibetan Plateau and its Effect on Global Climate". The 97th session "Problems and Challenges in the Management of the Science Fund" provided solid foundation for drafting of new management rules on funding expenses. Several summary reports were published on *Science Foundation in China*, *Science China* and *Bulletin of the Chinese Academy of Sciences*, and some outcome of the forum sessions were published on *Newsletter of Disciplinary Policy* edited by the Bureau of Policy of NSFC.

When the Shuangqing Forum saw its 100th session this year, NSFC President Yang Wei delivered a speech in the session and gave much stress on the forum. He reviewed the important role of Shuangqing Forum in the past 10 years on building innovative culture, promoting discipline intercrossing, intensifying academic exchange, and improving the management of science funding. He hoped that the Shuangqing Forum as an

important platform for strategic discussions for NSFC will stick to its goal of stimulating scientific ideas, exploring means and ways for solving major scientific problems, promoting cooperation and strengthening project support, and make new contributions to the prosperity of basic research in China.

Topics of Shuangqing Forum in 2013

- The 89th session: "Challenging Problems in Big Data Technology and Application"
(Beijing, March 6–7, 2013)
- The 90th session: "Precision Measurement Physics and its Applied Basic Research"
(Beijing, March 20–21, 2013)
- The 91st session: "Land–air Coupling Process in Tibetan Plateau and its Effect on Global Climate"
(Beijing, April 1–2, 2013)
- The 92nd session: "Research on Basic Scientific Problems in Advanced Engine Combustion"
(Chengdu, April 10–11, 2013)
- The 93rd session: "Studies on the Food Safety Monitoring and Governing Policies in China"
(Guangzhou, May 16–17, 2013)
- The 94th session: "Frontier Studies on Mechanical Electrical Coupling of High Precision Electronic Equipment"
(Xi'an, May 25–26, 2013)
- The 95th session: "Frontier Scientific Problems of Bird Flu"
(Beijing, May 27–29, 2013)
- The 96th session: "Key Scientific Problems in Acoustic Network for Marine Sensing and Navigation Applications"
(Beijing, June 20–21, 2013)
- The 97th session: "Problems and Challenges in the Management of the Science Fund"
(Shanghai, July 30–31, 2013)
- The 98th session: "Open and Sharing of Research Resources in International Cooperation"
(Harbin, August 16–17, 2013)
- The 99th session: "Scientific Basis of Effective and Clean Use of Rare Earth Resources"
(Baotou, August 27–28, 2013)
- The 100th session: "Radio Astronomy in China: Present and Future"
(Beijing, November 2–3, 2013)
- The 101st session: "Neural Functional Imaging and its Application in Major Disease"
(Nanjing, September 16–17, 2013)
- The 102nd session: "Key Scientific Problems in Research on Aging Translational Medicines"
(Hangzhou, October 8–9, 2013)
- The 103rd session: "Immunological Regulation of Animal Diseases"
(Nanjing, October 16–17, 2013)
- The 104th session: "Discussions of Bio Clock Research Progress and Important Frontier Scientific Problems"
(Suzhou, November 3–5, 2013)
- The 105th session: "Environmental Change and Bio Evolution in Geological Periods"
(Beijing, December 16–17, 2013)