

# Professional Development Division

## Thursday, February 15, 2007

### Summary of Conference Call

#### Purposes for Conference Call:

- i. To discuss Division activities performed since last meeting and
- ii. To plan new activities for next few months
- iii. Discuss structure and plans for next year

#### Agenda:

- Open Meeting
  - Meeting called to order at 3:05 pm
- Identification of Participants
  - Participants on the call included:
    - Leo Stander
    - Ram Ramanan
    - David Calkins
    - Harry Klodowski
    - Carrie Hartz
    - Sandi Spratt
    - Miriam Lev-On
    - Tom Devine
    - Pam Heckel
- Review previous meeting summaries for January 11, 2007
  - See draft summary on A&WMA website at:  
[http://www.awma.org/files/about/summary\\_of\\_conference\\_call\\_1-11-2007\\_2.doc](http://www.awma.org/files/about/summary_of_conference_call_1-11-2007_2.doc)
    - Meeting Notes were approved
- Committee Reports
  - Continuing Education Committee - No report provided
    - Status of Course Selection for ACE
      - Carrie indicated that announcements for classes will be sent out with preliminary program
  - E-Learning Committee - Leo Stander
    - Status of Audio - Web Conferences
      - Activities and updates
        - Discussion with Executive Committee
          - Leo and Harry reported on discussions. The president requested a “plan of action” to get Sections and Chapters to participate. Web conferences are similar to programs done by Sections and Chapters only on a larger scale. Discussions were held on getting more involvement by Tech Councils. Harry indicated that the web conferences are making money and that only one other Association can make that statement. It is a



has been involved with developing on line training courses concerning air quality technology. His experience in this regard could be helpful to the Division.

- New Business
  - Division Structure and Leadership
    - Discussions were held during the call regarding the future composition and structure of the Division. One recommendation that was discussed and tentatively agreed upon was to combine the Continuing Education Committee with the E-Learning Committee.
  - Next meeting of Professional Development Division
    - Tentative Date and time
      - March 15 at 3:00 pm EDT

Meeting adjourned at 4:00 pm.



**Terms of Reference  
Multi-donor Mission  
Institutionalizing Air Quality Management Training in China**

**I. Introduction**

1. China's rapid economic growth has resulted in higher standards of living, but has also caused severe environmental problems. Air pollution from motor vehicles and from industries, particularly from coal combustion, continues to be a major concern in China's growing cities. Aggravating the urban air pollution from mobile and stationary sources are dust and sandstorms which have increased in frequency..

2. The Chinese government has passed national policies addressing atmospheric pollution. The Eleventh Five-Year Plan (2006-2010) for National Economic and Social Development of the People's Republic of China articulates China's concern for intensifying environmental protection efforts by strengthening of air pollution prevention and control. Among the priority programs specifically mentioned is the reduction of SO<sub>2</sub> from coal-fired power plants.

3. In order to achieve the proposed air quality improvements, it is important to strengthen the capacity of Chinese cities to manage air quality. The China State Environmental Protection Administration (SEPA) attaches great importance to the capacity building, recently, SEPA Minister Mr. Zhou Shengxian in a speech at the national annual meeting of Director Generals in environmental sector, mentioned the low capacity of local environmental protection teams as one of the five barriers jeopardizing environment enforcement and policy implementation. SEPA has announced that 2007 will be "The Year of Strengthening Local Environment Protection Work" to be supported by four major actions. The four actions highlight the significance of personnel professional capacity building while at the same time emphasizing the need for careful science based policy making.

4. While AQM training courses have previously been organized in China, these were conducted in an ad hoc manner and have resulted in the training of only limited numbers of individuals within a relatively short period of time. The ad-hoc approach, often depending on donor funded projects, has resulted in limited institutionalization of training programs. As a consequence there is still a considerable shortage in qualified Chinese trainers on AQM as well as a shortage in Chinese language training materials on AQM especially for specialized fields related to management of both mobile and stationary sources. Associated with the lack of an institutionalized approach to AQM training for in-service staff is the absence of an incentives system for potential trainees including a certification system to acknowledge successful participation in AQM training by representatives of local governments.

5. Chinese city representatives, in city workshops organized by the SEPA and Clean Air Initiative for Asian Cities (CAI-Asia) through the CAI-Asia China Project<sup>1</sup> in 2005 and 2006, identified air quality management (AQM) training as a key strategy to improving air quality in China. The need for training at both the managerial and technical levels was emphasized. The need for a more comprehensive approach to AQM training in China was also highlighted in the Development Partners meeting on Urban Air Quality in China, in September 2006, which was attended by most of the donor organizations providing support to AQM in China.

6. Following the 2006 Development Partners meeting the CAI-Asia China Project has continued the dialogue with SEPA on the need for a more comprehensive approach to AQM training and it was agreed that the development of a training concept would be part of the 2007 Workplan for the CAI-Asia China Project. Several organizations have taken notice of the need for AQM training and have expressed their interest to be part of an initial assessment mission to discuss the desirability and feasibility to develop a comprehensive approach to AQM training in China. Interested organizations such as the Air and Waste Management Association (AWMA), US Environmental Protection Agency (USEPA), World Bank, Norwegian Institute for Air Research (NILU), Sino-Italian Cooperation Program for Environmental Protection, and the European Commission's Delegation in China, have previously supported and/or are planning to support AQM training programs in China.

## **II. Purpose, outputs, and terms of reference**

7. In a meeting between SEPA and CAI-Asia on 8 January 2007, it was agreed that as part of the CAI-Asia China Project Work Plan 2007, a multi-donor mission be organized in April 2007 to assess the feasibility of establishing an institutional training structure for AQM for in-service staff in China.

8. The multi-donor mission aims to generate (i) a shared view among donors and SEPA on the necessity and feasibility of establishing a long-term institutionalized training structure on AQM for in-service staff in China; (ii) a shared view on the training structure design including the scope, operating mechanism and institutions to be involved, and (iii) an agreed process of next steps.

9. The members of the multi-donor mission will:

- a. Conduct an assessment of training needs of in-service staff in Chinese cities and provinces to enable them to implement air quality policies and programs. The assessment will be conducted through face-to-face meetings with representatives from identified government agencies, training and academic institutes, and other relevant stakeholders;
- b. Evaluate existing AQM training being provided in China;

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<sup>1</sup> The CAI-Asia China Project is a project of SEPA and CAI-Asia. The CAI-Asia China Project Office was established in July 2005 with support from the Asian Development Bank (ADB), Energy Foundation, and The William and Flora Hewlett Foundation (Hewlett Foundation).

- c. Review the experience of comprehensive AQM training programs in other parts of Asia, e.g. Thailand, and in the USA and Europe;
- d. Define target groups for training to support efforts of the Chinese government to improve AQM;
- e. Develop the concept for a national institutionalized training program for AQM in China;
- f. Assess whether a geographical focus on the Western cities of China is desirable in the initial phase of the program;
- g. Identify possible partners for the program at the national, provincial and city levels to bring the program forward;
- h. Determine how the program can build on and be linked to ongoing and planned AQM training programs of development agencies and other organizations;
- i. Discuss the important issues of source of financing and program sustainability
- j. Discuss the findings of the mission with stakeholders; and with SEPA.

10. The Mission will prepare a report of the mission containing the following sections: (i) results of assessment of training needs in Chinese cities, (ii) recommendations on the design of the program to institutionalize AQM training in China, (iii) proposed implementation plan with milestones, key organizations responsible for implementation, and sources of funding. The draft of the report will be prepared and presented in China during concluding meetings with stakeholders and SEPA.

### III. Preparatory activities

11. Prior to the mission, several preparatory activities need to be undertaken by the CAI-Asia China Project Office:

- a. **Data collection.** Information needs to be collected on:
  - i. **Training needs assessment.** Have there been previous studies made on the AQM training needs in China? What were the key results and recommendations of these studies?
  - ii. **Training organizations.** Provide an overview of the possible organizations that could deliver AQM training in China.
  - iii. **Content.** What types of courses are being provided? Is there a dichotomy made of courses for managerial and technical positions?
  - iv. **Financing.** What is the funding mechanism supporting the delivery of these courses? How much on average do these training courses cost?
  - v. **Participants.** What is the profile of the training course participants? What is the estimated number of participants trained within a year?
  - vi. **Frequency.** How often are the training courses delivered within a year?
  - vii. **Materials.** Compile existing training modules and materials on AQM. Provide a description of available training modules and materials.
  - viii. **Delivery methods.** How are training courses delivered? How extensively is the distance learning method being used?

- ix. **Evaluation.** How is training course effectiveness monitored and evaluated?
- x. **Certification.** Is there a system of government accreditation for training courses?
- xi. **Career development and training.** What are the career development training requirements? Is training considered or required for promotion to senior level positions?
- xii. **Best practice examples in other fields.** Describe the experience of the University of the River and the Sea on delivery of training courses for water. Describe other success stories in training delivery, albeit in other environmental fields, in China.
- xiii. **Best practices from outside China.** This includes the documentation of training programs developed by US-EPA, AWMA, (United States), TAPCE – (Thailand) and relevant examples from Europe.

b. **Logistical preparations.** The schedule of the visits to different Chinese cities needs to be arranged. The people, organizations, institutes, and government agencies to be visited needs to be finalized (Attachment 1). The CAI-Asia China Project Office will be the focal point for arrangement of air tickets and hotels within China, as needed. Logistics preparations will be undertaken in coordination with Mr. Wang Eyi of the Air Division of the Pollution Control Department and with Mr. Wang Xin of the Foreign Economic Cooperation Office of SEPA.

12. The CAI-Asia Secretariat based in Manila will coordinate with representatives from the Thailand Air Pollution Center of Excellence (TAPCE), USEPA, and AWMA to prepare a presentation to be given to the mission members on the training systems they have established in their countries.

#### IV. Implementation arrangements

13. Preliminary discussions have been conducted with AWMA, Italy, Norway, and USEPA to participate in the multi-donor mission together with CAI-Asia and CAI-Asia China Project Office. A representative from School of Environment Science and Engineering of Tsinghua University, a leading institution on AQM in China that has been involved in several AQM training programs, will be invited to join the mission. Representatives from other development agencies (e.g., Asian Development Bank, European Commission's Delegation to China, Energy Foundation, World Bank, Sweden) will be invited to attend the presentation of the findings and results of the mission.

14. The joint mission is expected to be held in April 2007 to last for a maximum of six days. The mission activities will include meetings in Beijing and field visits to potential training institutes located in a representative city in the Western region to be identified based on initial findings of the data collection and analysis mentioned in Section III. Each of the participating organizations in the mission will finance their own travel, accommodation, and meals.

Tentative List of Meetings

Day 1-2

Meetings in Chongqing:

1. Chongqing municipal EPB: Director; Air Division, and HR Division
2. Chongqing Academy of Environmental Science

To be expanded

Day 3-4

Meetings in Beijing

1. SEPA:
  - a) FECO (Wang Xin),
  - b) PCD (Wang Jian, Wang Eyi),
  - c) HRD (to be advised by FECO/PCD)
2. Donors: EU (Magnus Gislev), Norway (Per Shive), Sweden (Ping), UK (Wang Lei, Leo Horn), & World Bank (Andreas Liebenthal)
3. Tsinghua University: School of Environment Science and Engineering (Hao Jimin, Fu Lixin, and He Kebin)

To be expanded

Day 5

Wrap up meetings

Attachment

TO: Ed. Council Officers  
RE: Jan. 2007 A&WMA Board Meetings  
FROM: H. Klodowski, 1/31/07

HK and Prof. V. Anejia attended the Board Meeting, and report on the following items of interest:

1. Gossip – Seitz reports gridlock at EPA after 12/06 Court Decision vacating 8 hr. ozone implementation rule. Fine Particulate implementation rule, which followed 8 hr. ozone rule, is now on hold for a long time. Next ozone standard will be .06 – essentially background.

Lots of concern over near highway health studies.

Second report to implement NAS study on Air Quality Management due April 2007 – The old ways of meeting standards won't work – new approach – market?

EPA report on Title V reform will be out in the spring.

There are a lot of things in the works-air reg as it used to be cant solve the problems-Can AWMA be the forum to work out the new thing?

2. The idea of Environmental Basics training or downloadable “timeless” modules on thing like AP Controls came up a number of times. Dr. Cooper of UCF Env. Engineer (his term on Bd. ending, might be interested in Ed. Csl. openings) is now teaching an AP controls course – he will keep his materials – who will follow-up with him?

3. Board's YP task force will end, duties are covered by new YP Committee in Ed. Csl. P.D.D. Board likes the idea of doing a young professionals award – for ACE paper or generally. Dr. Bates Freymel to talk to Dr. Rood?

4. R. Sprott reported on Indian Tribes initiative. Don't recall specific name, but we gave them a group membership as one year trial. They want the EERGs and other outreach materials. Sprott believes he can find a sponsor to cover cost.

5. Discussion of need to promote memberships. Mathai to head new membership committee on membership, committee to include an academic member. New study of current/lapsed members to identify reasons for leaving or staying.

6. Priority Item: February mailing to nonmember professors on ACE 2007 and student membership. How to make contact list? Dr. Cooper to supply Env. Engrs. list (rec'd today). Someone to supply AEESP list? NAEEP? Eutaugh? to supply Directory of Atmos. Scientists? LW volunteered S. Spratt, & intern, to work on lists.

7. Other Priority Item: Come up with some action plan to target academics, (Anejia, Rood, Martin, Hallock-Waters, Yu?)

8. Restriction of graduate scholarships to student members or with recommendation of member faculty advisor discussed. Ed. Csl. to implement next award cycle.

9. Board and staff like the idea of a podcast presentation for student members, after new website launch 2/5/07. I have beta link if you want to see it. There is also a new pdf presentation on benefit of A&WMA membership – that is the basis for a podcast?

10. Discussed A&W program existing only due to heroic efforts of L. Stander, who is not interested in continuing past 2007 (CV says cut due to financial loss). HK pointed out net of all programs is profit, and important service, reaches more members than ACE? Exec. Committee to discuss before ACE.

NOTE: I was later invited to participate in the February 13<sup>th</sup> Exec. Committee of the Board conference call to discuss future of audio webs. I suggested L. Stander and C. Hartz also be invited.

11. HK will attend Sec/Ch Council Meeting 2/10. Please advise of any agenda items.

12. Audio web by T. Vandervooren & SCC on membership development may happen this spring. Any chance we could have some kind of plan to promote academic memberships this spring? Or something to contribute to this effort?

13. Announced vacancies and position rotations. Need to get notice out in EM and blast email. Proposed notice attached.

14. Intercouncil mtg will be moved to Jan 2008. Some adverse comment about Ed Csl. attendance at Intercouncil. Attendance has been bad for years, the major benefit is interaction with other councils. Should we just drop it?