

HTAPC Newsletter

Issue 4, April 2024



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more update



Accomplished Activities

Panel discussion: Lessons learned on addressing air pollution challenges across various sectors in Thailand - past, present, and future.



On April 10, 2024, HTAPC and CCAS (Center for Clean Air Solutions) collaborated to host a panel discussion focusing on insights and experiences in addressing air pollution issues across sectors, drawing from past lessons, current practices, and future challenges. The seminar, held at Asawin Grand Convention Hotel in Bangkok, Thailand, allowed for virtual participation through Zoom Meeting and Facebook Live.

Dr. Supat Wangwongwatana, Director of HTAPC, and **Mr. Paisit Panitchkul**, Director of CCAS, delivered opening remarks, welcoming participants to the conference. The event featured 14 speakers from diverse sectors, each with significant expertise in addressing air pollution challenges in Thailand. The morning session centered on "A journey of improving air quality in the present," while the afternoon session explored strategies for enhancing air quality in the future.

A question and answer session provided a platform for participants to share perspectives, leading to a comprehensive summary of the key outcomes from the meeting.

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International Academic Seminar "PM_{2.5} : Opportunities and Challenges in Southeast Asia."



On April 4, 2024, HTAPC, in partnership with Thammasat University, Lampang Campus, organized an international academic seminar titled "PM_{2.5}: Opportunities and Challenges in Southeast Asia." The seminar aimed to share academic research, knowledge, and promote academic collaborations on a national and international scale.

Dr. Wiparat Deeong, Executive Director of the National Research Council of Thailand (NRCT), and **Assoc. Prof. Dr. Supreeya Kaewla-ia**, Vice Rector for Lampang Campus Administration and Law at Thammasat University, delivered the opening remarks, extending a warm welcome to participants. **Dr. Supat Wangwongwatana**, Director of HTAPC, highlighted past initiatives addressing the PM_{2.5} concern in Thailand, emphasizing HTAPC's core mission. HTAPC acts as a central hub connecting air pollution and climate experts nationally and globally, facilitating the exchange of information, knowledge, perspectives, and experiences. Its primary objective is to build a community of experts dedicated to addressing air pollution and climate challenges at local, regional, and global levels.



HTAPC Knowledge Dissemination

Training Course "Training of the Trainers in Air Pollution and Climate"



From 1st to 5th April, 2024, HTAPC organized a training course titled "Training of the Trainers on Air Pollution and Climate" at the Asia Hotel in Bangkok. The course was funded by grants from the NRCT and the Ministry of Higher Education, Science, Research, and Innovation. The training featured a diverse lineup of speakers, including Assoc. Prof. Dr. Noppaporn Panich and Dr. Vanisa Surapipith. The curriculum covered a wide range of topics related to air pollution, such as general knowledge, short-lived climate pollutants (SLCPs), air pollution standards and regulations, pollution sources, and pollution control and management measures. Additionally, participants received guidance on developing research project proposals to secure funding from various sources. Upon successful completion of the course, all participants were awarded certificates.

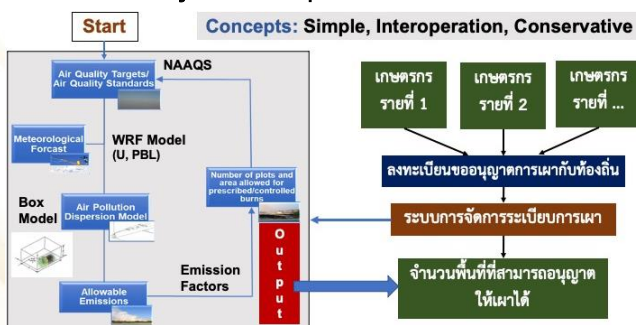


Development of PM_{2.5} assimilative capacity forecasting system for effectively reducing PM_{2.5} emission from open burning activities at local administrative levels in Thailand

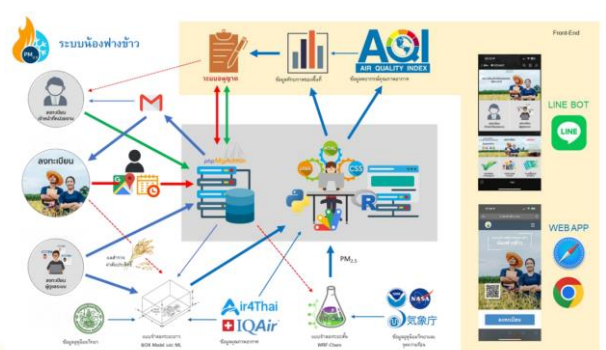


The controlled management of agricultural waste through burning methods is considered a **final option** for promptly addressing such residues. Recognizing the urgent need to reduce PM_{2.5} emissions resulting from open burning in the agricultural sector, CCCACC and HTAPC have stressed the importance of implementing systematic management of this practice. To address this issue, a project led by **Mr. Sompoke Kingkaew**, in collaboration with research associates from the CCCACC and funded by the NRCT, was launched. This project utilizes mathematical models like the **Box model** and **WRF-Chem** model to predict the potential PM_{2.5} emissions from burning areas. The scientific approach aims to provide empirical evidence to support informed local permitting decisions. The development of the Burning Management System (Nong Fang Khao System), integrated through a LINE Chatbot, has shown promising results from assessments and surveys conducted among farmers and local agencies. Over 70% of respondents have expressed a desire to utilize the reservation system and adopt burning management practices. The system effectively addresses time constraints faced by farmers by regulating the burning area to comply with daily limits, preventing PM_{2.5} concentrations from exceeding the standards. Following successful implementation and testing in the Khlong Luang District of Pathum Thani Province, this system can serve as a model for further expansion on a cloud platform, with operational costs not exceeding 5,000 baht per year. For more information, please visit <https://น้องฟางข้าว.com>.

Project Conceptual Framework



Nong Fang Khao System



We cordially invite you to join us
Hub of Talents on Air Pollution and Climate

HTAPC Membership Form for Experts



Official website of Hub of Talents on Air Pollution and Climate (HTAPC)

<https://www.htapc.info>



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