

Hanse-Wissenschaftskolleg  
Institute for Advanced Study

Study Group Meeting

# Intelligent Systems for Vector-Borne Disease

Delmenhorst, May 28-29, 2026

## Organizer

Prof. Dr. Peter Haddawy

HWK Fellow / Mahidol University, Bangkok, Thailand

## Venue:


Hanse-Wissenschaftskolleg  
Institute for Advanced Study

Lehmkuhlenbusch 4

27753 Delmenhorst

Tel: +49 4221 9160-100

[www.hanse-ias.de](http://www.hanse-ias.de)

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Program

Thursday, 28. May 2026

09:30 – 10:00 Welcome, introductions, overview

**Session 1: Modeling and Risk Mapping**

10:00 – 10:30 Dominique Bicout  
*Modeling the human mobility landscape for the spread of diseases*

10:30 – 11:00 Somnath Chaudhri  
*Spatial and Spatiotemporal Risk Mapping of Guinea Worm Disease, a Neglected Tropical Disease in Sub-Saharan Africa*

11:00 – 11:30 *COFFEE BREAK*

**Session 2: Dengue**

11:30 – 12:00 Ho Quang Chanh  
*Continuous physiological monitoring for dengue management*

12:00 – 12:30 Peter Haddawy  
*Prospective clinical evaluation of a dengue diagnostic decision support system*

12:30 – 13:00 Dumrong Mairiang  
*Beyond the Algorithm: Lessons Learned Deploying a Dengue Prognosis App in Inpatient Wards*

13:00 – 14:30 *LUNCH*

**Session 3: Dengue (cont'd)**

14:30 – 15:00 Gloria Chechet  
*From Febrile Illness to Intelligent Diagnostics: Understanding Disease Complexity in West Africa*

15:00 – 15:30 Saranath Lawpoolsri  
*Community-driven policy recommendations for dengue prevention and control in Thailand: A mixed-methods study*

15:30 – 16:00 **Breakout topic brainstorming**

**Poster & Demo Session**

16:00 – 17:30 *COFFEE BREAK & Poster/Demo Session*

**Breakout Session**

17:30 – 18:30 **Breakout groups**

18:30 – 20:00 *DINNER*

Friday, 29. May 2026

9:30 – 10:30

**Breakout Reports**

**Session 4: Vector and Environmental Monitoring**

10:30 – 11:00

Patchara Sriwichai

*From Mosquito Data to Action: How Aedes Shifts Across Landscapes and Why Information Technology Matters for Dengue Control*

11:00 – 11:30

COFFEE BREAK

11:30 – 12:00

Myat Su Yin

*A comprehensive sensing platform for vector surveillance*

12:00 – 13:00

Kingsley Badu

*MosquitoTracker: A potential surveillance tool for public health*

13:00 – 14:30

LUNCH

**Session 5: Other Vector-Borne Diseases**

14:30 – 15:00

Ibrahim Mahamat

*Beyond HAT Elimination: Molecular Evidence of Trypanosoma spp. in Mechanical Vectors in Chad*

**Breakout Sessions**

15:00 – 15:45

**Breakout topic brainstorming**

15:45 – 16:45

**Breakout sessions**

15:45 – 16:45

COFFEE BREAK

16:45 – 17:45

**Breakout reports**

17:45 – 18:30

**Wrap-up and way forward**

18:30 – 20:00

DINNER