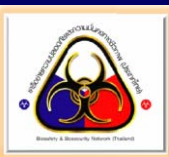


# Biosafety/biosecurity Network Thailand (BSNT)

Prasert Auewarakul



# Challenges

## Emerging and reemerging diseases

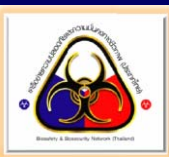
### Outbreak of new diseases

Severe acute respiratory syndrome (SARS)

- Avian Influenza (H5N1)
- Chikungunya
- pandemic influenza 2009 (H1N1)

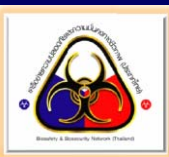
### Endemic diseases

- HIV
- Dengue
- *Melioidosis*
- *Tuberculosis*





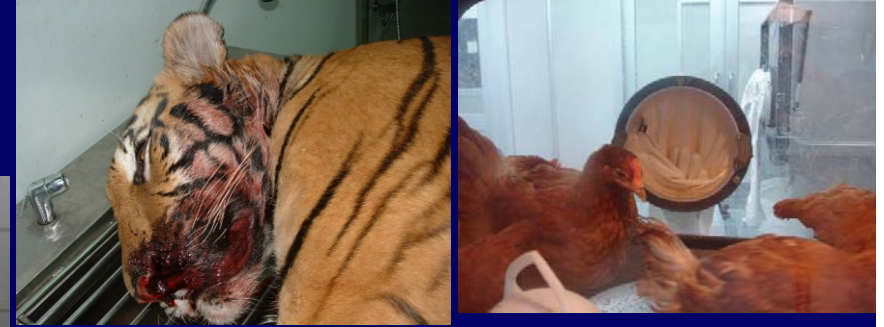
## Mobile BSL2/3



Courtesy from Thai NIH



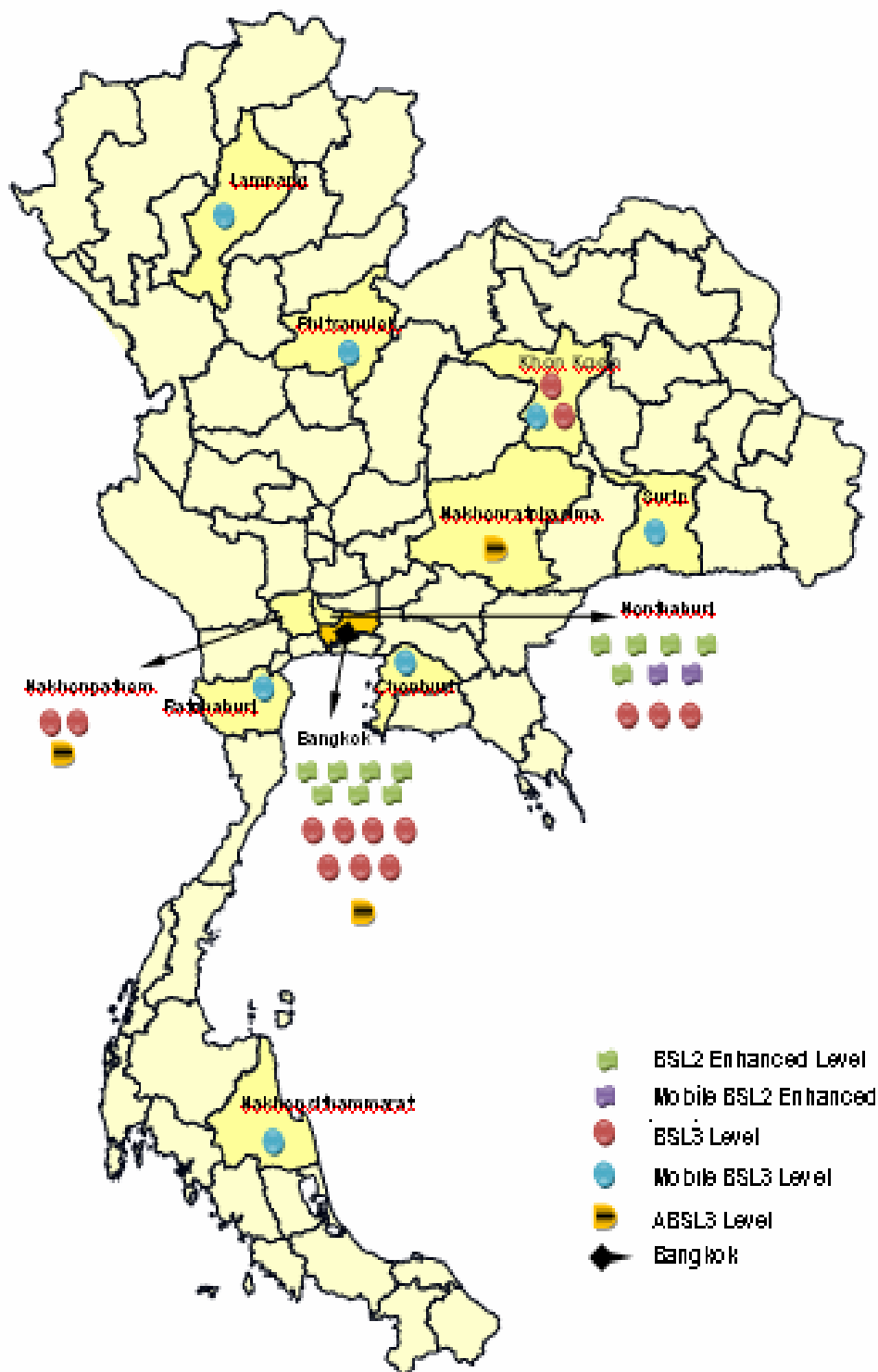
# Animal facilities



Courtesy from Veterinary Science, Mahidol University

# Situation of Biosafety laboratory (BSL) facility in Thailand

- 23 units of BSL-3 (including 7 mobile units)
- 4 units of animal BSL-3
- 18 units of BSL-2 enhance (BSL-2 level, BSL-3 practice)



# BSL 2 enhance facility

## BSL-2 facility plus more practices as working in BSL-3

Personal Protective Equipment

Respiratory protection :

(fit-tested N<sub>95</sub> respirator  
or higher level of protection)

Shoe covers

Closed-front gown

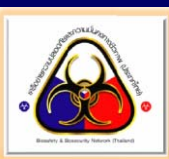
Double gloves

Eye protection

(goggles or face shields)



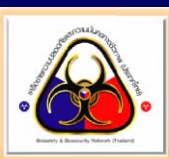
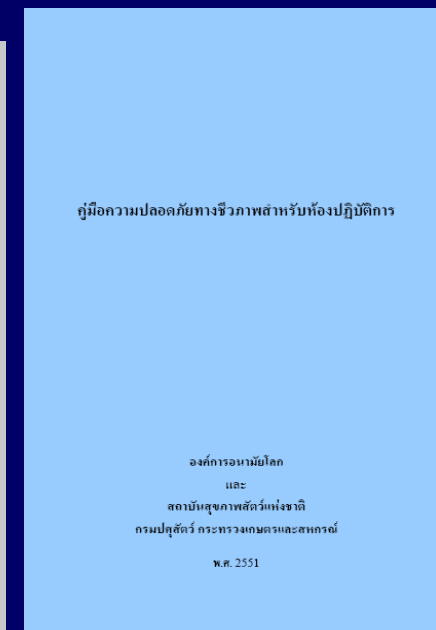
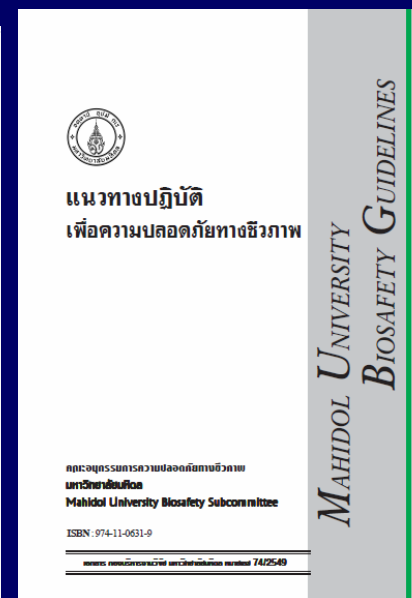
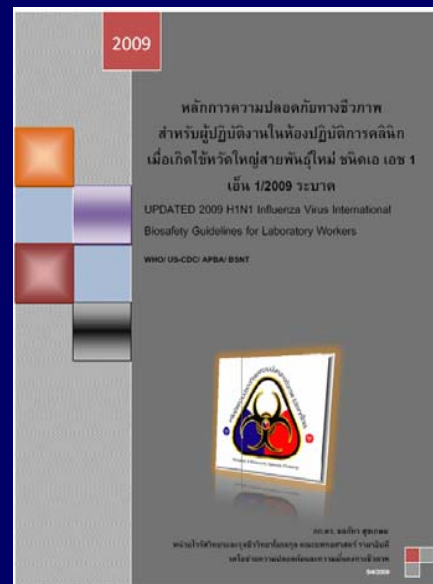
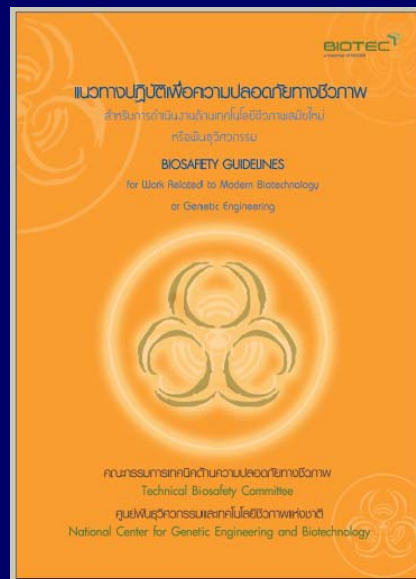
Most of diagnostic assays  
could be done





# Laboratory readiness to emerging infectious agents

- Equipment and facilities
- Standard operation procedure
- Good laboratory practice
- Lab skill and training  
(BSNT in cooperating with Thailand – U.S. CDC collaboration)



# Biosafety/Biosecurity Network of Thailand (BSNT)



Prof. Emeritus Dr.  
Prasert Thongcharoen



Prof. Dr  
Prasert Auewarakul



Assoc. Prof. Dr.  
Chonlaohat Sukasem

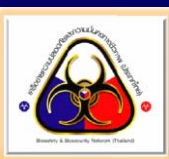


Assoc. Prof. Dr  
Suda Louisirirotchankul



BSNT has operated since 2009  
under Virology Association (Thailand)  
and in networking with A-PBA

[www.thaibiosafety.org](http://www.thaibiosafety.org)



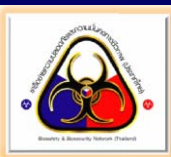


## Objectives

- 1) To promote biosafety and biosecurity knowledge for infectious disease prevention and control / by conducting conferences, workshops and distributing information through various routes.
- 2) To increase biosafety and biosecurity experts who can provide consultations and opinions on related issues.
- 3) To create biosafety and biosecurity recommendations and guidelines for Thailand.



# Training to the trainer (onsite BSL-3) by Dr Sean G. Kaufman (10-14 March 2008)



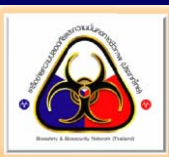


# 'Biosafety and Biosecurity conference and workshop (18-22 May 2009)

Multiciplinary for Emerging Disease'  
with emphasis on policy and implementation



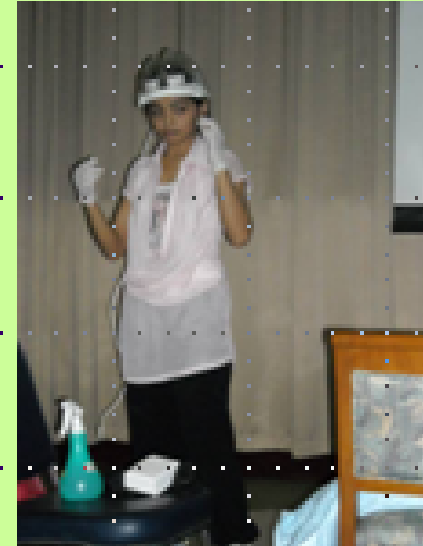
## BSL3 Training





# Biosafety conference and workshop (27-28 July 2009) 'Biosafety Level 2 enhanced'

## BSL-2 enhanced training (2009)





International Federation of  
Biosafety Associations

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Promoting Biosafety through Worldwide Collaboration

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## IFBA Conference Goals and Objectives

### Global Biosafety and Biosecurity: Taking Action

February, 2011 Bangkok, Thailand

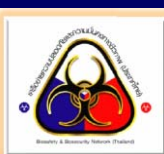
#### 1. About the Conference

Biosafety and Biosecurity are central to the global fight against emerging infectious diseases. The lack of safe and secure laboratory environments to handle dangerous pathogens presents a risk of infection not only to the laboratory worker, but to the community at large, whether from an accidental laboratory release or deliberate theft and subsequent bioterrorism event. Further, states lacking adequate laboratory capacity are unable to detect and respond to outbreaks of emerging infectious diseases.

#### SEARCH

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## Conclusion

- Biosafety measures and guidelines should be adapted according to local needs and situations.
- There is an urgent need to strengthen biosafety capacity in Thailand.
- BSNT as an independent academic community will facilitate biosafety development in Thailand.

