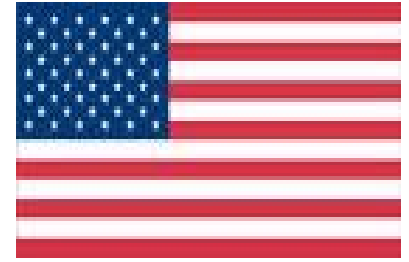




Thailand – United States
3rd Joint Committee Meeting
June 21-22, 2023



Report Back on Working Group 2: **STEM Education, Entrepreneurship, Innovation Ecosystem**

Co-Chairs:

Ms. Nutthaporn Ruchikachorn (Thailand Co-Lead)

Mr. Pariwat Wongsamran (Thailand Co-Lead)

Dr. Allyson Kennedy (U.S. Co-Lead)



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Current activities highlighted in this working group include:

1. STEM Education:

- Interdisciplinary K-12 curriculum programs
 - IPST Power of Ten STEAM, NIA STEAM4Innovator program, NSM outreach programs for SCREAM (Science, Computing, Robotics, Engineer, Arts, and Math)
 - Consortium approach to computing curriculum through U.S. CSforAll program
- **Cooperation activities:**
 - U.S.-Thailand k-12 STEM/Computing Education Roundtable (Dec 2022)
 - AI Engineering Institutes: U.S.-Thai higher education curriculum design

2. Entrepreneurship

- NIA StartUp Thailand Program to support collaborations between science and business faculty
- GIST initiative to provide U.S. expertise and support for Thai entrepreneurs
- **Cooperative Activities:** GIST training this week; Shared focus on supporting women

3. Innovation

- Scaffold entrepreneurship ecosystem through a National Startup Committee
 - Develop professional associations for each sector (fintech, edtech, etc.)
- U.S. –Thai Faculty research collaborations around groundwater pollution could lead to new fields of study/careers
- **Cooperative Activities:** Bilateral university collaborations at CMKL and NIU



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Priority Action items for this working group:

1. STEM Education:
 - Form a U.S.-Thailand working group for Computational Literacy
 - Representatives from IPST, NSTDA, NSF, *U.S. Embassy Bangkok*, *OBEC*, *DEPA*
 - Meet at regular intervals over next 5 years to set long term goals, short term targets, and action plans for bilateral cooperation around curriculum, PD, research
 - **Immediate next step: Identify WG members and meet to establish goals**
 - **Please email aykenned@nsf.gov, nruch@ipst.ac.th, pariwat@nia.or.th to participate**
2. Entrepreneurship:
 - Explore joint activities between U.S. GIST initiative and Startup Thailand program
 - Help Thai startups develop their innovations in the US market through the GIST Business Incubation program
 - Provide GIST Investment training series for Startup Thailand members
 - **Immediate next step: Identify mechanism for co-led program**
3. Innovation:
 - CMKL (Thailand) and Northern Illinois University (U.S.): Co-develop summer research experience for U.S. and Thai undergraduate students
 - Both universities have collaborators across two nations
 - Student teams of science, computer science, and business majors work together to design technological solutions to global scientific problems
 - **Immediate next step: Identify funding mechanism, partnering departments/institutions, and research project themes**