

Senior Security Studies Program (SSSP)

Handbook

May 17-21, 2021

By Strategic Studies Center,
National Defence Studies Institute
and Daniel k. Inouye Asia-Pacific Center
for Security Studies



Senior Security Studies Program (SSSP)

May 17-21, 2021

By Strategic Studies Center National Defence Studies Institute
and Daniel K. Inouye Asia-Pacific Center for Security Studies



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ABOUT THE STRATEGIC STUDIES CENTER (SSC)



Strategic Studies Center,
National Defence Studies
Institute



AVM Poomjai Leksuntarakorn

Director, SSC, NDSI

The Strategic Studies Center (SSC) was founded by the former Chief of Defence Forces, the visionary General Kriengsak Chamanand. The center was originally named the “Strategic Research Institute”, which officially founded on the 9 April 1979.

The institute was to provide professional recommendations on strategies regarding politics, economics, socio-psychological issues, and defence aspects to higher commanders. The Strategic Research Institute was initially put under the National Defence College.

In 1990, the National Defence Studies Institute (NDSI) was founded. Then, the Strategic Research Institute was transferred to be under the NDSI. Later, on the 2 April 2009, the “Strategic Research Institute” was renamed the “Strategic Studies Center”, or SSC until today.

Vision A leading organization in building and disseminating security and strategy knowledge, aiming towards excellence in ASEAN”

Mission The Strategic Studies Center (SSC) is responsible for planning and operations regarding studies, researches, and assessments of relevant strategic environments, which may have impacts on national security. The SSC regularly provides perspectives and professional recommendations on strategies and security to defence organizations and the government, having the Director of Strategic Studies Center as head.

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ABOUT THE DANIEL K. INOUE ASIA-PACIFIC CENTER FOR SECURITY STUDIES (DKI APCSS)



Peter A. Gumataotao
Rear Admiral (Ret.), U.S. Navy
Director, DKI APCSS



Daniel K. Inouye
Asia-Pacific Center for
Security Studies

The Daniel K. Inouye Asia-Pacific Center for Security Studies (DKI APCSS) is a U.S. Department of Defense institute that officially opened Sept. 4, 1995, in Honolulu, Hawaii. DKI APCSS addresses regional and global security issues, inviting military and civilian representatives of the United States and Asia-Pacific nations to its comprehensive program of executive education and workshops, both in Hawaii and throughout the Indo-Pacific region.

The Center supports the U.S. Indo-Pacific Command's objective of developing professional and personal ties among national security establishments throughout the region. With a non-warfighting mission, the Center focuses on a multilateral and multi-dimensional approach to defining and addressing regional security issues and concerns. The most beneficial result is building relationships of trust and confidence among future leaders and decision-makers within the region.

DKI APCSS provides a focal point where national officials, decision makers and policy makers can gather to exchange ideas, explore pressing issues and achieve a greater understanding of the challenges that shape the security environment of the Indo-Pacific region. As well, the Center gives attention to the increasingly complex interrelationships of military, economic, political and diplomatic policies relevant to regional security issues through its three academic components: executive education, workshops and research and publications efforts.

Vision A free, prosperous Indo-Pacific promoting collaborative, inclusive security.

Mission DKI APCSS builds resilient capacity, shared understanding, and networked relationships among civilian and military practitioners and institutions to advance a free and open Indo-Pacific.

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**Daniel K. Inouye
Asia-Pacific Center for
Security Studies**

COURSE DESCRIPTION “SENIOR SECURITY STUDIES COURSE”

Senior Security Studies Program 2021

May 17-21, 2021



**Strategic Studies Center,
National Defence Studies
Institute**

Background

Pursuant to guidance from the Chief of Defence, Thailand, the Strategic Studies Center (SSC), National Defence Studies Institute, and the Daniel K. Inouye Asia-Pacific Center for Security Studies (DKI APCSS), are partnering to conduct the inaugural Senior Security Studies Course focused on strategic thinking and context setting, traditional, non-traditional and emerging security issues, and the implications for Thailand.

Course Description / Methodology

This is an intensive, one-week program for senior Thai security sector leaders on the upward track for positions of significant national and international responsibility. The course will look at a comprehensive array of emergent and over-the-horizon security issues such as: terrorism, environmental degradation, geopolitical competition, cyber threats, and regional governance. The course will also consider geo-strategic issues such as power shifts among nations as part of the context in which broader security concerns play out. Senior Participants will utilize strategic thinking and consider cooperative interagency responses to transnational security scenarios during an interactive exercise. The program is based on the broad notion that national and regional security is significantly enhanced by collaborative efforts at monitoring, preventing, and preparing for any transnational security threat.

The curriculum emphasizes the impact of change in the region, as well as capacities to manage change -- leader and institutional. The course integrates a challenging program of interactive presentations and dialogue, together with opportunities to specifically consider the implications for Thailand and recommend practical, actionable responses.

The course typically caters to senior executives from varied ministries and organizations throughout the government of Thailand, as well as officials from non-governmental, regional and international organizations with security-related portfolios. Typical peer level ranks include ambassador/deputy minister, flag-general rank military officers, and regional directors. This unique education and networking opportunity mostly benefits senior leaders whose responsibilities require influencing or making decisions within multilateral, multinational, and whole-of-government forums.

Course Outcomes

- Participants with broadened perspectives on, and deepened understanding of, contemporary and future, domestic and regional, security challenges and opportunities.
- Participant-developed initial thoughts on areas for enhanced Government of Thailand and Royal Thai Armed Forces focus.
- A networked cohort of participants with shared understanding of each other's organizations and plans.
- A foundation for SSC to continue developing its role as a premier host and facilitator for executive education in support of Royal Thai Armed Forces and Government of Thailand priorities.

AGENDA

SENIOR SECURITY STUDIES PROGRAM 2021

17 MAY 2021(BANGKOK TIME), 16 MAY 2021(HONOLULU TIME)

STRATEGIC STUDIES CENTER, NATIONAL DEFENCE STUDIES INSTITUTE

REGISTRATION, OPENING CEREMONY,

THEME: GEOPOLITICS AND STRATEGIC COMPETITION, AND FUTURE REGIONAL SECURITY

(DRESS: UNIFORM OR BUSINESS ATTIRE FOR MORNING SESSIONS;

AFTER LUNCH ATTIRE WILL BE BUSINESS CASUAL)

HONO TIME	BKK TIME	EVENT
1500-1600 (SSC/Send ZOOM Meeting Link 1530)	0800-0900 (SSC/SEND ZOOM MEETING LINK 0830)	Participant Registration
1600-1700 (SSC Facilitation)	0900-1000 (SSC FACILITATION)	<ul style="list-style-type: none"> ● Opening ceremony <li style="padding-left: 40px;"><u>Opening Speech</u> : <li style="padding-left: 80px;">Gen. Siravuth Wongkantee Commanding General of National Defence Studies Institute <li style="padding-left: 40px;"><u>Opening Remarks:</u> <li style="padding-left: 80px;">AVM Poomjai Leksuntarakorn Director, SSC NDSI <li style="padding-left: 40px;"><u>Opening Remarks:</u> <li style="padding-left: 80px;">RADM (Ret) Pete Gumataotao Director, APCSS ● Group Photo ● Keynote Speech: “Regional Security: Trends and Challenges” Gen. Boonsrang Niumpradit

HONO TIME	BKK TIME	EVENT
		Former Chief of Defence Forces, Royal Thai Armed Forces
1700-1710 (SSC/SEND ZOOM MEETING LINK 1700)	1000-1010 (SSC/SEND ZOOM MEETING LINK 1000)	Refreshment Break
1710-1800	1010-1100	<ul style="list-style-type: none"> • SSC-APCSS Presentation • Staff and Participant Introductions <p>Course Overview</p> <p>Interactive Polling Session: Exploring Our Starting Positions</p> <p>By SSC</p>
1800-1900	1100-1200	<p>Geopolitics and Strategic Competition</p> <p>By Dr. Alexander Vuving, Professor, DKI APCSS</p>
1900-2030	1200-1330	Lunch
2030-2130 (SSC Facilitation)	1330-1430 (SSC Facilitation)	<p>Future Regional Security</p> <p>By</p> <p>AVM Poomjai Leksuntarakorn</p> <p>Director, SSC NDSI</p>
2130-2145	1430-1445	Refreshment Break

HONO TIME	BKK TIME	EVENT
2145-2245	1445-1545	<p>Breakout Discussion</p> <p>Facilitators:</p> <ol style="list-style-type: none"> 1. Gen. Jumphon Chalerytoy 2. Gen. Jerdwut Kraprayoon 3. Lt.Gen. Noppadol Mungkalathon 4. Lt.Gen. Apisak Sombutcharoenon
2245-2330 (SSC Facilitation)	1545-1630 (SSC Facilitation)	<p>Brief-backs by breakout groups, discussion and synthesis of recommendations for Chief of Defence briefing</p> <p>Facilitators: By SSC</p>

18 MAY 2021(BANGKOK TIME), 17 MAY 2021(HONOLULU TIME)

THEME: STRATEGIC THINKING AND MESSAGING, THAILAND'S ROLE AMID ASEAN

GEOPOLITICAL VOLATILITIES: THE US PERSPECTIVES

(DRESS: BUSINESS CASUAL)

HONO TIME	BKK TIME	EVENT
1500-1505 (SSC/Send ZOOM Meeting Link 1430)	0800-0805 (SSC/Send ZOOM Meeting Link 0730)	Course Flow & Administrative Announcements By Lt.Col.Tamrongchai Noonpugdee, SSC
1505-1515	0805-0815	Director's Comments AVM Poomjai Leksuntarakorn, Director, SSC
1515-1630	0815-0930	Strategic Thinking and Messaging in Complex Security Environments By APCSS Topic 2 Dr. Ethan Allen, Professor, DKI APCSS Ms. Mary Markovinovic, Public Affairs Chief, DKI APCSS
1630-1700	0930-1000	Refreshment Break
1700-1900	1000-1200	Keynote Speech: Thailand's Role amid ASEAN Geopolitical Volatilities : The US Perspective by JUSMAG THAI Representative

HONO TIME	BKK TIME	EVENT
1930-2030	1230-1330	Lunch
2030-2045 (SSC Facilitation)	1330-1345 (SSC Facilitation)	Introduction to Breakout Discussions By Lt.Col.Tamrongchai Noonpugdee, SSC
2045-2245 (SSC Facilitation)	1345-1545 (SSC Facilitation)	Exercise Strategic Thinking and Messaging in Complex Security Environment by SSC Exercise Facilitators: 1. Gen. Jumphon Chalerytoy 2. Gen. Jerdwut Kraprayoon 3. Lt.Gen. Noppadol Mungkalathon 4. Lt.Gen. Apisak Sombutcharoennon
2245-2300	1545-1600	Refreshment Break
2300-2330 (SSC Facilitation)	1600-1630 (SSC Facilitation)	Brief-backs by breakout groups, discussion and synthesis of recommendations for Chief of Defence briefing Facilitators: By SSC

19 MAY 2021 (BANGKOK TIME), 18 MAY 2021 (HONOLULU TIME)

THEME: SECURITY IMPLICATIONS OF CLIMATE CHANGE, ECONOMIC SUSTAINABILITY AND RESILIENCY,
AND TRANSNATIONAL ORGANIZED CRIME (TOC) IN THE INDO-PACIFIC

(DRESS: BUSINESS CASUAL)

HONO TIME	BKK TIME	EVENT
1500-1505 (SSC/Send ZOOM Meeting Link 1430)	0800-0805 (SSC/Send ZOOM Meeting Link 0730)	Course Flow & Administrative Announcements By Lt.Col.Tamrongchai Noonpugdee, SSC
1505-1515	0805-0815	Director's Comments AVM Poomjai Leksuntarakorn, Director, SSC NDSI
1515-1615	0815-0915	Security Implications of Climate Change By Dr. Ethan Allen, Professor,DKI APCSS
1615-1715	0915-1015	Economic Sustainability and Resiliency By Dr. Tim Bueher, Professor, DKI APCSS
1715-1745	1015-1045	Refreshment Break
1745-1845	1045-1145	Transnational Organized Crime (TOC) in the Indo-Pacific By Prof. J. "Lumpy" Lumbaca, Professor, DKI APCSS

HONO TIME	BKK TIME	EVENT
1845-1900 (SSC Facilitation)	1145-1200 (SSC Facilitation)	Introduction to Breakout Discussions By Lt.Col.Tamrongchai Noonpugdee, SSC
1900-2000	1200-1300	Lunch
2000-2130 (SSC Facilitation)	1300-1430 (SSC Facilitation)	Breakout Discussion Facilitators: 1. Gen. Jumphon Chalerytoy 2. Gen. Jerdwut Kraprayoon 3. Lt.Gen. Noppadol Mungkalathon 4. Lt.Gen. Apisak Sombutcharoennon
2130-2200	1430-1500	Refreshment Break
2200-2300 (SSC Facilitation)	1500-1600 (SSC Facilitation)	Brief-backs by breakout groups, discussion and synthesis of recommendations for Chief of Defence briefing Facilitators: By SSC

20 MAY 2021(BANGKOK TIME), 19 MAY 2021(HONOLULU TIME)

THEME: TECHNOLOGY STRATEGIC COMPETITION AND SECURITY IN THE INDO-PACIFIC, CYBER SECURITY IN THE INDO-PACIFIC, AND INDO-PACIFIC SPACE DIPLOMACY

(DRESS: BUSINESS CASUAL)

HONO TIME	BKK TIME	EVENT
1500-1505 (SSC/Send ZOOM Meeting Link 1430)	0800-0805 (SSC/Send ZOOM Meeting Link 0730)	Course Flow & Administrative Announcements <i>By Lt.Col.Tamrongchai Noonpugdee, SSC</i>
1505-1515	0805-0815	Director's Comments <i>AVM Poomjai Leksuntarakorn, Director, SSC NDSI</i>
1515-1615	0815-0915	Technology and Strategic Competition in the Indo-Pacific <i>By Dr. John Hemmings, Professor, DKI APCSS</i>
1615-1715	0915-1015	Cyber Security in the Indo-Pacific <i>By Dr. Virginia Bacay-Watson, Professor, DKI APCSS</i>
1715-1745	1015-1045	Refreshment Break
1745-1845	1045-1145	Indo-Pacific Space Diplomacy <i>By Dr. Alfred Oehlers, Professor, DKI APCSS</i>

HONO TIME	BKK TIME	EVENT
1845-1900 (SSC Facilitation)	1145-1200 (SSC Facilitation)	Introduction to Breakout Discussions By Lt.Col.Tamrongchai Noonpugdee, SSC
1900-2000	1200-1300	Lunch
2000-2130 (SSC Facilitation)	1300-1430 (SSC Facilitation)	Breakout Discussion <i>Facilitators:</i> 1. Gen. Jumphon Chalerytoy 2. Gen. Jerdwut Kraprayoon 3. Lt.Gen. Noppadol Mungkalathon 4. Lt.Gen. Apisak Sombutcharoennon
2130-2200	1430-1500	Refreshment Break
2200-2300 (SSC Facilitation)	1500-1600 (SSC Facilitation)	Brief-backs by breakout groups, discussion and synthesis of recommendations for Chief of Defence briefing Facilitators: By SSC

21 MAY 2021(BANGKOK TIME), 20 MAY 2021 (HONOLULU TIME)

THEME: GROUP PRESENTATION, AND CLOSING CEREMONY

(DRESS: UNIFORM OR BUSINESS ATTIRE FOR CLOSING CEREMONY.)

HONO TIME	BKK TIME	EVENT
1500-1510 (SSC/Send ZOOM Meeting Link 1430)	0800-0810 (SSC/Send ZOOM Meeting Link 0730)	Director's Welcome <i>AVM Poomjai Leksuntarakorn, Director, SSC NDSI</i>
1510-1610	0810-0910	Group Presentation to Chief of Defence (or representative) on Thailand's National Security and Future Senior Executive Education, Q and A, and discussion. <i>Facilitator: By SSC</i>
1610-1640	0910-0940	Refreshment Break
1640-1740 (SSC Facilitation)	0940-1040 (SSC Facilitation)	<ul style="list-style-type: none"> Closing ceremony <i>Closing Remarks:</i> <i>AVM Poomjai Leksuntarakorn, Director, SSC NDSI</i> <i>Closing Remarks:</i> RADM (Ret) Pete Gumataotao Director, APCSS Presentation of Certificates

HONO TIME	BKK TIME	EVENT
		<p style="text-align: center;"><u>Closing Speech:</u> <i>Gen. Siravuth Wongkantee</i> <i>Commanding General of National Defence Studies</i> <i>Institute, (or rep)</i></p> <ul style="list-style-type: none"> ● Group Photo



Asia-Pacific Center for
Security Studies

TOPIC OVERVIEW

Senior Security Studies Program 2021

May 17-21, 2021



Strategic Studies Center,
National Defence Studies
Institute

Geopolitics and Strategic Competition

Dr. Alexander Vuving, Professor, DKI APCSS

Overview

This lecture provides the big picture of today's geopolitical landscape with a focus on the largest vortex in the environment the superpower rivalry between China and the United States. The most consequential elements of a geopolitical landscape are the strategic competition and strategic cooperation among its big and middle powers. Four major features characterize the current geopolitical landscape in the Indo-Pacific region:

- The centrality of the US-China strategic competition;
- The emergence of an alliance of major regional powers that excludes China the Quad;
- The conflict between two kinds of international order—a rules-based order and a hierarchical order; and
- The effort of many regional states to preserve their autonomy, broaden their options, and engage with opposite sides of the strategic competition.

The superpower rivalry between the United States and China is but the latest instance of a recurrent theme in history. Whenever there are more than one great power in an international system, there is great power competition. The contest between China and the United States revolves around two main questions:

- What will be the basis of the normative international order?
- Who will have more influence on the international order and the actors in the international system?

Unlike most of the past instances of great power competition, the contest between the United States and China is unlikely to lead to a direct war between the two great powers because the deterrence of a nuclear holocaust works in both directions. Efforts to avoid a nuclear war between the two superpowers will save humanity from a third world war, but their strategic contest will last for several decades and manifest itself in various forms of “war by other means,” including but not limited to economic warfare, cyberwarfare, information warfare, psychological warfare, and political warfare. This aspect of the US-China rivalry is reminiscent of the Cold War between the United States and the Soviet Union, the first great power competition in the nuclear age. However, today’s great power competition is different from the Cold War in many important aspects. Chief among these aspects are four.

First, the economies of China and the United States are, directly and indirectly through a third country, so intertwined that a complete decoupling is impossible even in the long term. However, the COVID-19 pandemic has laid bare the severe vulnerability this economic interdependence has caused to both countries. As result, an important part of their strategic competition involves the restructuring of the supply chains and investment flows, both to reduce this vulnerability and to weaponize it

Second, the cyberspace, which did not exist in the previous global contests, has become an indispensable domain of human activities, societal life, and international relations. Data, the digital building blocks of the cyber domain, are now the most precious resource in the world economy. Technologies relying on the cyber domain are revolutionizing social life and the global economy. A lifeline during the COVID-19 pandemic, the cyber domain is also a central arena of great power competition in our time.

Third, the central frontline of the US-China strategic contest runs across the maritime domain of the Western Pacific and Eastern Indian Ocean, which are home to the critical sea routes that connect some of the most productive areas on Earth. This maritime nature of its frontline makes the US-China rivalry geostrategically different from the Cold War, whose frontline cut across the land domain of Central Europe. Today’s superpower rivalry, therefore, may be less stable than the Cold War, while Southeast Asia is right at the center of great power contest, not at the fringe of it as in the Cold War.

Fourth and most important normatively, while the United States advocates an international order based on liberal rules, China is trying to nudge others to accept its supreme

position in a hierarchical order in exchange for economic and regime security benefits. By contrast, the Soviet Union's offer during the Cold War was an international order based on socialist solidarity, which soon cracked under the weight of the Sino-Soviet split and eventually crumbled under the pressure of a liberal order led by the United States. Today as in the Cold War, the responses of populations, both inside and between the two superpowers, will decide the outcome of their contest.



Daniel K. Inouye
Asia-Pacific Center for
Security Studies

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Future Regional Security

AVM Poomjai Leksuntarakorn

Director, SSC, NDSI



Strategic Studies Center,
National Defence Studies
Institute

Overview

The world has been overwhelming with Volatilities, Uncertainties, Complexity, and Ambiguity (VUCA). These also change the traditional security concept to comprehensive security. The world has been more connecting like never before with Drivers such as Technology. This is the present and future world that Personal Security might affect National and Regional security. Therefore, this is no surprise that the Regional security issues will affect reciprocally to National security. There are National security issues such as National Interest, Protectionism, Nationalism, and Hegemony; which endorse some countries to find approaches to shape the situations to preserve their interest.

Objectives

- Understand broad regional security situations and trends
- Identified important regional security trends to deliver priority on

Recommended Readings

- Thai-Chinese Strategic Research Center, Chinese dream concept, Retrieved 10 May 2021 from <http://www.vijaichina.com/articles/1047>
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- Mike Yeo, Nigel Pittaway, Usman Ansari, Vivek Raghuvanshi and Chris Martin, Hypersonic and directed-energy weapons: Who has them, and who's winning the race in the Asia-Pacific?, Retrieved 10 May 2021 from <https://www.defensenews.com/global/asia->

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- U.S. Naval Institute, Report to Congress on Lethal Autonomous Weapon Systems, Retrieved 10 May 2021 from <https://news.usni.org/2021/04/21/report-to-congress-on-lethal-autonomous-weapon-systems-2>
- The White house, Quad Leaders ' Joint Statement: "The Spirit of the Quad" Retrieved 10 May 2021 from <https://www.whitehouse.gov/briefing-room/statements-releases/2021/03/12/quad-leaders-joint-statement-the-spirit-of-the-quad/>
- The White house, Fact Sheet: Quad Summit, Retrieved 10 May 2021 from <https://www.whitehouse.gov/briefing-room/statements-releases/2021/03/12/fact-sheet-quad-summit/>
- International Telecommunications Union, The Technology Divide, Retrieved 10 May 2021 from <https://www.thegreatdivides.com/the-technology-divide>



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Strategic Thinking and Messaging in Complex Security Environments

Dr. Ethan Allen, Professor, DKI APCSS

Ms. Mary Markovinovic, Public Affairs Chief, DKI APCSS

Overview

Loizos Heracleous states that “The purpose of strategic thinking is to discover novel, imaginative strategies which can re-write the rules of the competitive game; and to envision potential futures significantly different from the present.” This presentation attempts to address that challenge head-on, and to provide some guidance, based on the ideas of Jeanne Liedtka, on how to practice strategic thinking and apply it to issues of crisis management. A systems’ perspective is essential to strategic thinking as is a focus on intent (or framing a problem). Other elements of strategic thinking are thinking in time, linking past to present to future outcomes; hypothesis testing (through scenario generation); and intelligent opportunism (based on reiterative analysis and situational awareness). In addition, we’ll look at strategic and crisis communications and the importance of being able to put thoughts into the right words for the right audience.

Objectives

- Understand the concept of strategic thinking and its relation to strategic planning.
- Understand the dependence of strategic thinking on systems’ analysis and framing.
- Understand the importance of putting strategic thoughts into strategic communication.
- Evaluate the applicability of teaching strategic thinking in senior security studies.

Recommended Readings

A classic article on strategic thinking: Liedtka, Jeanne M. 1998. "Strategic Thinking:

Can It Be Taught?" in Long Range Planning 31:1, pp. 120-129. Available at:

http://www.egovernment.tas.gov.au/__data/assets/pdf_file/0012/121125/6Liedtka.PDF

Useful resources for strategic messaging:

Center for Disease Control Risk and Crisis Communications

<https://emergency.cdc.gov/cerc/manual/index.asp>

CERC Messages and Audiences:

https://emergency.cdc.gov/cerc/ppt/CERC_Messages_and_Audiences.pdf



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Strategic Studies Center,
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Institute

Thailand's Role amid ASEAN Geopolitical Volatilities:

The US Perspectives

James L. Wayman

Acting Deputy Chief of Mission

Overview

Geopolitical is one of the factors, which affects to a national and regional level. This factor conduces international cooperation to respond and preserve their National interests. However, ASEAN has been encountering challenges from Geopolitical factors consists of (1) In-ASEAN region Geopolitical factors such as security dilemmas, and recent Political insurgency situation in Myanmar; on 1st February 2021, which bring about ASEAN role on the situation via “ASEAN Chairman s Statement on the Development in The Republic of The Union of Myanmar¹”, Chairman s Statement on the Informal ASEAN Ministerial Meeting²”, and Chairman s Statement on the ASEAN Leader s Meeting³” consequently pose a challenge to Principle of Non-interference”, regarding ASEAN Charter⁴, and (2) Out-ASEAN region Geopolitical factors, especially Great power competition in ASEAN region, partly

¹ ASEAN. (2021). *ASEAN Chairman's Statement on the Development in The Republic of The Union of Myanmar*. Retrieved 28 April 2021 from <https://asean.org/asean-chairmans-statement-developments-republic-union-myanmar/>

² ASEAN. (2021). *Chairman's Statement on the Informal ASEAN Ministerial Meeting*. Retrieved 28 April 2021 from <https://asean.org/storage/FINAL-Chairmans-Statement-on-the-IAMM.pdf>

³ ASEAN. (2021). *Chairman's Statement on the ASEAN Leader's Meeting*. Retrieved 28 April 2021 from <https://asean.org/storage/Chairmans-Statement-on-ALM-Five-Point-Consensus-24-April-2021-FINAL-a-1.pdf>

⁴ ASEAN (2008). *ASEAN Charter*. Retrieved 28 April 2021 from <https://asean.org/storage/images/archive/publications/ASEAN-Charter.pdf>

in form of bilateral and multilateral cooperation with the ASEAN Member States, which underscore ASEAN Geopolitical importance.

As aforementioned, all Geopolitical factors might cause challenges and effects to increase Geopolitical volatilities to ASEAN and ASEAN Member States. As well as Thailand will have to seek an appropriate Role for Great power and ASEAN.

Objectives

- To perceive Thailand's Role amid ASEAN Geopolitical Volatilities
- To perceive Recommendations for Thailand's Role to Great power and ASEAN

References

1. ASEAN. (2021). *ASEAN Chairman's Statement on the Development in The Republic of The Union of Myanmar*. Retrieved 28 April 2021 from <https://asean.org/asean-chairmans-statement-developments-republic-union-myanmar/>
2. ASEAN. (2021). *Chairman's Statement on the Informal ASEAN Ministerial Meeting*. Retrieved 28 April 2021 from <https://asean.org/storage/FINAL-Chairmans-Statement-on-the-IAMM.pdf>
3. ASEAN. (2021). *Chairman's Statement on the ASEAN Leader's Meeting*. Retrieved 28 April 2021 from <https://asean.org/storage/Chairmans-Statement-on-ALM-Five-Point-Consensus-24-April-2021-FINAL-a-1.pdf>
4. ASEAN (2008). *ASEAN Charter*. Retrieved 28 April 2021 from <https://asean.org/storage/images/archive/publications/ASEAN-Charter.pdf>



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Asia-Pacific Center for
Security Studies

Senior Security Studies Program 2021

May 17-21, 2021



Strategic Studies Center,
National Defence Studies
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Security Implications of Climate Change

Dr. Ethan Allen, Professor,DKI APCSS

Overview

Global trends of increasing demands on natural resources, human interactions around the Food-Energy-Water (FEW) nexus generate complex, interlinked security issues. Continuing small scale conflicts over FEW resources suggest that resolving natural resource conflicts will be a defining peace and security challenge for the 21st century. Climate change is a “threat multiplier” with adverse and growing impacts on many aspect of FEW-related security. Security practitioners must understand the complex interactions among climate and the FEW nexus. Security governance must anticipate, innovate, and cooperate to manage potential conflict over resources.

Objectives

- More deeply understand the complex nature of human interactions around the FEW nexus, the tightly interwoven aspects of FEW resources and security, and the ever-growing impacts of climate change related to these.
- Better appreciate the growing and ever-more-urgent needs for both internal and trans-national whole-of-society collaboration and cooperation in order to successfully resolve environmental and resource challenges in coming decades.

Recommended Readings

Climate Change and Security: Perspectives from the Field

<https://cpr.unu.edu/research/projects/climate-change-and-security-perspectives-from-the-field.html#outline>



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Economic Sustainability and Resiliency

Dr. Tim Bueher, Professor, DKI APCSS

Overview

The massive shocks to the global economy from COVID-19 and climate change have highlighted the importance of sustainability and resilience for countries around the world. Economic sustainability focuses on putting in place policies that promote the welfare of the citizens over the long-term, and thus focuses on efficient use and reuse of fixed resources, among other policies. Economic resilience speaks to the ability of the economy to recover from shocks and how economic actors plan to avoid future shocks. In this lecture we will look at different aspects of the Thai economy from the perspective of sustainability and resilience.

Objectives

-

Recommended Readings

- For more background for the lecture, please consider viewing the following lectures from Asia-Pacific Center for Security Studies' recent Economics and Security Module:
- Forman, Lori, APCSS, "Economic Sanctions and Statecraft,"
https://www.youtube.com/watch?v=XCj9XwlnA_A
- Oehlers, Alfred, APCSS, "Demographics and Security,"
<https://www.youtube.com/watch?v=FRqBEgk2dO4&t=4s>

- Byrd, Miemie, APCSS, "Economic Inequalities and Insecurities,"
<https://www.youtube.com/watch?v=egeupUJedRo>
- Byrd, Miemie & Buehrer, Timothy, APCSS, "Southeast Asia,"
<https://www.youtube.com/watch?v=Xv1CUZCWbg&t=1s>



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Transnational Organized Crime (TOC) in the Indo-Pacific

Associate Professor Lumpy Lumbaca, US Army (Retired)

Overview

While Transnational Organized Crime (TOC) affects every country in the world, the nature of illicit markets and their impact differs from region to region. The Indo-Pacific is no exception, and while it is prosperous – in part due to expanding social exchanges, trade and investment in infrastructure – the region is also challenged by increasingly aggressive organized crime networks and syndicates. Like any business, transnational criminal enterprises seek out conditions that are good for the bottom line, and in the Indo-Pacific conditions have been favourable. Covid-19 has further exacerbated the situation. The fact is that while law enforcement and border management in the region are robust in some jurisdictions, they are effectively not functioning in others, and limited cross-border cooperation and corruption are serious problems. Key enabling factors for TOC are unfortunately in-place. This presentation will identify and candidly present challenges, and facilitate discussion on potential responses as we look ahead.

Objectives

- Highlight the spectrum of TOC in the Indo-Pacific while focusing on several of the more harmful and effective criminal enterprises.
- Discuss the effects of Covid-19 on TOC
- Understand the nexus between various criminal, terrorist, and even government organizations.
- Examine areas for greater cooperation in countering TOC in the region.

Recommended Readings

- United Nations Office on Drugs and Crime (UNODC) (2021), RESEARCH BRIEF The impact of COVID-19 on organized crime. https://www.unodc.org/documents/data-and-analysis/covid/RB_COVID_organized_crime_july13_web.pdf



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Technology and Strategic Competition in the Indo-Pacific

Dr. John Hemmings, Professor, DKI APCSS

Overview

Technology has long been a major variable in state competition in history. Communications technology has been particularly powerful, both for business usage and for military usage, since the Roman, Mongolian, and British Empires. In 2000, Xi Jinping began to realize that technology would become a major part of China's journey to regain great power status and would enable it to surpass other great powers such as the United States. While many in the West still considered Informations Communications Technologies (ICT) as a commercial technology, Xi realized that "capturing the heights of the global economy" could be possible if China dominated these technologies, their standards, and their design. He implemented a number of policies between 2013 and 2021 – Digital Silk Road, Made in China 2025, AI Strategy, Outline for Innovation-Driven Growth, and so on to help China become the most powerful country in advanced technologies, a "Cyber Superpower". While the US was suspicious of these strategies, it was only during President Donald Trump that these fears and the counter-measures – took priority over the political and economic aspects of the relationship.

Objectives

- Highlight the origin of the current struggle with Xi Jinping's grand strategy dating back to 2000.
- Understand how the PRC views data and its central place in all of these technologies (5G, AI, semi-conductors, IPv6)
- Examine areas for greater cooperation in persuading China away from zero-sum thinking on technology.

Recommended Readings

Frederick Kempe, “Op-ed: China is Testing a National Digital Currency – one Piece in Xi’s Bid for Global Influence,” CNBC, 23 May, 2020, available at:

<https://www.cnbc.com/2020/05/23/op-ed-chinas-digital-currency-experience-part-of-xis-bid-for-influence.html>

“China bets big on \$2tn high tech infrastructure plan to spark economy”, Asia Nikkei, 1 June, 2020, available at: <https://asia.nikkei.com/Business/China-tech/China-bets-on-2tn-high-tech-infrastructure-plan-to-spark-economy>

Francois Godement, et al, “The China Dream goes Digital: Technology in the Age of Xi”, European Council of Foreign Relations, 25 October, 2018, available at:

https://ecfr.eu/publication/the_china_dream_digital_technology_in_the_age_of_xi/



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Cyber Security in the Indo-Pacific

Virginia B. Watson, Ph.D.

Overview

The Fourth Industrial Revolution (4IR) is upon us and well on its way to bringing fundamental transformations in all aspects of societal life. With Information and Communications Technology (ICT) at its core, the emerging technologies of 4IR are critical elements shaping the geopolitical landscape, the socio-economic discourse of everyday life, global technology governance, etc. This lecture proposes that there are at least six modalities in the study of 4IR cybersecurity:

- Non-state actors as change drivers;
- Geopolitical shifts and, in, for the virtual domain;
- The cyber dynamics of socio-economic transformations;
- Emerging technologies and governance; and
- International vs cyber order

Objectives

- Explore the security implications of 4IR, focusing on the strategic challenges and opportunities defining cybersecurity.
- Examine the current developments and trends in both concept and context that define the cybersecurity domain of the Indo-Pacific region.

Required Reading

- Bacay Watson, Virginia. "The Fourth Industrial Revolution and its Discontents: Governance, Big Tech, and the Digitization of Geopolitics," in *Hindsight, Insight, Foresight: Thinking About Security in the Indo-Pacific*, ed. Vuving, A. (Honolulu HI: DKI Asia-Pacific Center for Security Studies, 2020): 37-48. <https://apcss.org/wp-content/uploads/2020/09/03-watson-25thA.pdf>
- Watson, Virginia Bacay. "The Fourth Industrial Revolution and its Discontents: Governance, Big Tech, and the Digitization of Geopolitics," in ed. Vuving, Alexander L., *Hindsight, Insight, and Foresight: Thinking About Security in the Indo-Pacific* (Honolulu, Hawaii: Daniel K. Inouye Asia-Pacific Center for Security Studies, 2020): 37-48. <https://apcss.org/wp-content/uploads/2020/09/Hindsight-Insight-Foresight-Thinking-about-Security-in-the-Indo-Pacific.pdf>



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Indo-Pacific Space Diplomacy

Dr. Alfred Oehlers and Lt Col Shannon Vinson

Overview

The strategic importance of space is increasingly recognized by nations in the Indo-Pacific. Space is a key domain with applications affecting nearly every aspect of human life. For many countries, space offers crucial pathways to technological advancement and economic development. Space, in addition, holds vital significance to national security. Reflecting this multifaceted significance, space will increasingly be an issue to be discussed and debated in the international arena. The resolution of differences and search for common ground to protect space as a commons accessible to all nations, will require skillful diplomacy. This presentation will provide an introductory overview to the significance of space, the challenges and opportunities for cooperation, and the range of diplomatic arrangements in the Indo-Pacific that might be harnessed for building multinational consensus.

Objectives

- Provide an introductory overview of the strategic significance of space to the Indo-Pacific.
- Highlight the challenges but also opportunities for international cooperation and collaboration in space.
- Outline a range of diplomatic arrangements that might be harnessed to advance space cooperation and collaboration in the Indo-Pacific.

Recommended Readings

- Goswami, N. (2019), “China Has a Head Start in the New Space Race”, *The Diplomat*, May 29 <https://thediplomat.com/2019/05/china-has-a-head-start-in-the-new-space-race/>
- Ho, D. L. X. and Gorur, E. (2017), “Space Amongst the Giants: A New Course for Asia-Pacific Space Cooperation”, 68th International Astronautical Congress, Adelaide, Australia, 25-29 September. https://swfound.org/media/206027/ho_d_manuscript.pdf
- National Air and Space Intelligence Center (2018), *Competing in Space*, December. <https://media.defense.gov/2019/Jan/16/2002080386/-1/-1/1/190115-F-NV711-0002.PDF>
- Sarma, N. (2019), Southeast Asian Space Programmes: Capabilities, Challenges and Collaborations, Observer Research Foundation, 7 March. <https://www.orfonline.org/research/southeast-asian-space-programmes-capabilities-challenges-collaborations-48799/>
- Secure World Foundation (2020), *Space Policy and Sustainability*, December, Washington D.C. https://swfound.org/media/207084/swf_space_policy_issue_briefing_2020_web.pdf
- Starling, C., Massa, M., Mulder, C. and Siegel, J. (2021), *The Future of Security in Space*, Scowcroft Center for Strategy and Security, The Atlantic Council, Washington, D.C. <https://www.atlanticcouncil.org/content-series/atlantic-council-strategy-paper-series/the-future-of-security-in-space/#:~:text=The%20security%20of%20assets%20in,impact%20on%20future%20terrestrial%20conflicts.&text=An%20attack%20in%20outer%20space,the%20consequences%20of%20space%20attacks.>
- Wilson, R., Gleason, M., Patel, M. and Riesbeck, L. (2020), *The Value of Space*, Center for Space Policy and Strategy, May, Washington D.C. <https://aerospace.org/paper/valueofspace>

SEMINAR GROUP

Seminar Group 1

Name	Current Post	Organization
1. Rear Admiral Nuttapon Ketxumboon	Deputy Director of Joint Civil Affairs Directorate, Royal Thai Armed Forces Headquarters	Director of Joint Civil Affairs
2. Col. Pratuang Piyakapho	Deputy Director of Strategic Studies Center	Strategic Studies Center, National Defence Studied Institute
3. Group Captain Woravit Pramet	Protocol Division Director, Office of External Relations	Directorate of Joint Intelligence
4. Col. Arak Sorathitikrai	Director of Plan and Project Division	Counter Terrorist Operations Center
5. Gp.Capt. Surachat Panuwan	Director Security Policy and Strategy Division, General Administration Bureau	Office of Security Mission Coordination with the Internal Security Operations Command, Royal Thai Air Force
6. Gp.Capt. Meta suntornsaratoon	Directorate of Joint Personnel	Directorate of Joint Personnel
7. Pol.Col. Sahassachai Lochaya	Deputy Commander	Royal Thai Police
8. Mr. Warothai Tripitak	Director of Analysis and Coordination 3 Sub-Division	The Secretariat of the Prime Minister

Seminar Group 2

Name	Current Post	Organization
1. CAPT.Skye Bekanan RTN.	Deputy Director,Office of Joint Logistics	Directorate of Joint Logistics
2. Col. Apichart Choopavang	Director of Strategic Intelligence Division	Directorate of joint Intelligence
3. Gp.Capt. Lamthong Meesiri	Technology Officer, Technology Study Office, Office of RTAF Strategy and Doctrine	Office of RTAF Strategy and Doctrine
4. Mr. Sutthichat Ummathin	Senior Professional Level General Administration Officer	The Secretariat of the Cabinet
5. Col. Chaiyot Supamitkrisana	Director of Policy and Plans Division	Directorate of Joint Communications
6. Col. Marut Plengkham	Director of Operations and Intelligence	Armed Forces Security Center
7. Capt. Sauwalak Thongthab	Director of Military Academic Status	National Defence Studied Institute
8. Asst.prof. Rungphong Vongsaroj, Ph.D.	Vice President for Planning	National Institute of Development Administration

Seminar Group 3

Name	Current Post	Organization
1. Colonel Chatree Chanpitak	Director of Policy and Plans Division	National Defense Studies Institute Headquarters
2. Gp.Capt. Chitphol Korkitsammakul	Directorate of Joint Intelligence	Directorate of Joint Intelligence
3. Col. Ravee Rojanavonose	Deputy Director Policy and Plan	Office of Policy and Plans of Directorate of Joint Operations
4. Mr. Akarapan Sappapan	Judge of the Office of The President of The Supreme Court	Office of the President of the Supreme Court
5. Col. Yuttasin Parsookmoon	Director of Operations and Intelligence Division	Royal Thai Armed Forces Cyber Security Center
6. Col. Rangsana Padungbut	Director of Budget and Project Division	Armed Force Security Center
7. Mr. Sakol Sakkamjorn	Director of Permanent Secretary Staff Group	Office of the Permanent Secretary for Interior, Ministry of Interior

Seminar Group 4

Name	Current Post	Organization
1. Col. Satja Raktiprakorn	Director of Foreign Liaison Division	Directorate of Intelligence
2. Gp.Capt. Pongpoomet Noo-nil	Deputy Director, Technology Study Office	Office of RTAF Strategy and Doctrine
3. Gp.Capt. Choosak Kasatewit	Director, Regional Studies Division	Strategic Studies Center, National Defence Studies Institute
4. Mr. Akanit Choomnoom	Plan and Policy Analyst, Senior Professional Level	The Secretariat of the Prime Minister
5. Mr. Jakkrapong Chavong	Executive Director Office of the Electronic Transaction Commission	Ministry of Digital Economy and Society
6. Col. Pawarit Rattakajorn	Armed Forces Development Command	Armed Forces Development Command
7. Mr. Thawatchai Ratanaprechachai	Deputy Head of The Center Against Criminal Proceeds Laundering	Department of Special Investigation

THE STRATEGIC STUDIES CENTER TEAM



Gen. Boonsrang Niumpradit (Ret.)
Supreme Commander 2006-2008,
Royal Thai Armed Forces HQ

1. Education

1.1 Civilian education

1.1.1 Wat Bang Sor School, Suphan Buri Province (elementary school level)

1.1.2 Song Peenong School, Suphan Buri Province (Secondary school level 1 - 3)

1.1.3 Song Peenong Witthaya School, Suphan Buri Province (secondary school level 4 - 6)

1.2 Military education (class/year)

1.2.1 Armed Forces Academies Preparatory School, class 6, 1965

1.2.2 Chulachomklao Royal Military Academy (CRMA), class 17, 1966

1.2.3 Norwich University, 1967

1.2.4 The United States Military Academy (West Point), 1971

1.3 Courses taken while in the Services

1.3.1 S.M. in Mechanical Engineering, Massachusetts Institute of Technology (MIT),
USA, 1972

1.3.2 D.Eng. (Doctor of Engineering) in Structural Engineering, Asian Institute of
Technology (AIT), 1978

1.3.3 Army Command and General Staff College, class 60, 1982

1.3.4 National Defence College, class 36, 1994

1.4 Course taken after retirement

- Senior executive course, Capital Market Academy, class 8, 2009

2. Previous key positions

2.1 Previous Assignment

2.1.1 Instructor, Mechanical Engineering Division, CRMA, 1973 – 1978

2.1.2 Aide de Camp to Deputy Commander – in – Chief of the Royal Thai Army, 1978-1980

2.1.3 Commander of the 31st Artillery Battalion, the King's Guards, 1983 - 1986

2.1.4 Director of Strategic Research Institute, 1991 - 1996

2.1.5 Deputy Director of Joint Operations, 1996

2.1.6 Commandant of Joint Staff College, 1997 – 1999

2.1.7 Superintendent of National Defence College, 1999 – 2000

2.1.8 Director of Joint Operations, 2001 - 2002

2.1.9 Director of Office of Policy and Planning, Ministry of Defence, 2002 - 2003

2.1.10 Chief of Joint Staff, 2003 - 2005

2.1.11 Deputy Supreme Commander, 2005 - 2006

2.1.12 Supreme Commander 2006 – 2008

2.2 Special official assignment

- UNTAET Force Commander, East Timor, 2000 - 2001

2.3 Major experiences in the Services

2.3.1 Secretary, Border Committee between Thailand and Laos, Thailand and Cambodia, Thailand and Malaysia (during tenure as Director of Joint Operations and Chief of Joint Staff)

2.3.2 Deputy Chairman and Chairman of Border Committee between Thailand and Laos, Thailand and Cambodia, Thailand and Malaysia (during tenure as Supreme Commander)

2.4 Special activities

Previous

- President of AIT Alumni Association (Mother's Chapter), 2006 - 2008

- President of National Defence College Association, 2007 - 2009

- Vice President of AIT Alumni Association (Thailand's Chapter)

- Committee of the American University Alumni (AUA)

- President of West Point Association, 1999

- Chairman of Advisory Committee on Security Strategy, Ministry of Defence, 2008 – 2019

- Advisor to the Organic Agriculture of Thailand Foundation, 2010

- Members of the national legislative Assembly 2014-2019
- President of Nakhonnayok Province Association 2014
- Chairman of the National Justice Reform Commission (Police), 2017

Present

- Senator 2019 – present
- Chairman of for Peace Network Foundation, 2010-present
- Chairman of National Defence College Think Tank 2016 - present
- Chairman of Thailand’s Future Fund (scholarship granting), at Song Peenong Witthaya School, 1971-present
- Advisor to Institute of Security and International Studies , Chulalongkorn University
- Council member of Santapol College, 2009- present
- Special guest lecturer at institutes of higher education of the Armed Forces, Colleges and University.

3. Royal decorations and medals

Thailand

- Companion (Fourth Class) of the Most Noble Order of the Crown of Thailand 5 December 1976
- Companion (Fourth Class) of the Most Exalted Order of the White Elephant 5 December 1979
- Commander (Third Class) of the Most Noble Order of the Crown of Thailand 5 December 1982
- Commander (Third Class) of the Most Exalted Order of the White Elephant 5 December 1986
- Knight Commander (Second class) of the Most Noble Order of the Crown of Thailand 5 December 1988
- Knight Commander (Second Class) of the Most Exalted Order of the White Elephant 5 December 1990
- Knight Grand Cross (first Class) of The Most Noble Order of the Crown of Thailand 5 December 1991
- Knight Grand Cross (First Class) of the Most Exalted Order of the White Elephant 5 December 1994
- Knight Grand Cordon (Special Class) of the Most Noble Order of the Crown of Thailand 5 December 1997
- Knight Grand Cordon (Special Class) of the Most Exalted Order of the White Elephant 5 December 2002

International Decorations

- United Nations United Nations Service Medal, UNTAET 22 July 2001
- Brazil Medalha do Pacifador, Republica Federativa do Brasil 25 August 2003

- Singapore Distinguished Service Order (Military) 7 August 2008
- Malaysia Malaysian Armed Forces Gallantry Award (Honorary) 22 October 2008
- United States of America Legion of Merit (Degree of commander) September 2008
- Lao People's Democratic Republic Friendship Medal 10 July 2010

4. Honorary Awards

- 4.1 Distinguished Alumni of Song Peenong Witthaya School, Song Peenong District, Supanburi Province
- 4.2 Chakradao Distinguished Award Year 2001, Military Operations Field, Armed Forces Academies Preparatory School
- 4.3 Distinguished Alumni, Norwich University, Vermont, USA
- 4.4 AITAA Distinguished Alumni Award 2004 (International Affairs) Thailand's Chapter
- 4.5 AITAA Distinguished Alumni Award 2004 (International Affairs), Mother's Chapter
- 4.6 Distinguished Alumni, Army Command and General Staff College
- 4.7 Honorary plaque, Distinguished work on the Development of Drug Problem Solving Policy 2008, Office of Drug Prevention and Suppression, Ministry of Justice
- 4.8 Hall Of Fame of the Asian Institute of Technology (AIT) on 7 September 2010 at a glittering AIT Day 2010 ceremony organized to commemorate the 51st Anniversary of the Institute.
- 4.9 Distinguished Graduate Award 2013, United States Military Academy (West Point)

5. Special Pride

- 5.1 As the Supreme Commander, General Boonsrang was the leader in taking the Oath of Allegiance of the Royal Guards to His Majesty the King in the Ceremony of Taking the Oath of Allegiance and the Ceremonial Parade of the Royal Guards to celebrate the anniversaries of the King's Birthday twice which were the 60th Anniversary of the King's Accession to the Throne in 2006 and the 80th Anniversary of the King's Birthday.
- 5.2 General Boonsrang was the UNTAET PKF Commander.
- 5.3 Establishing the Royal Thai Armed Forces Strategic Studies Center to commemorate His Majesty the King's 80th Birthday at Lam Thain, Chonburi Province
- 5.4 Establishing the Directorate of Border Affairs.
- 5.5 Establishing the Directorate of Peace Keeping Operations.
- 5.6 Establishing office of the Armed Forces Attache', South Africa.

- 5.7 Establishing office of the Armed Forces Attache', Brazil.
- 5.8 Implementing the Reforestation Project at Baan Santikhiri, Mae Salong Hill, Chiangrai Province to commemorate His Majesty the King's 80th Birthday Anniversary
- 5.9 Implementing the Development and Rehabilitation Project of Life Quality and Upstream Area, Nam Nao, District Phetchaboon Province
- 5.10 Implementing the Project of Mangrove Planting for Natural Resources and Environment Preservation, Ranong Province
- 5.11 Establishing Youth Leadership Training Center for Peace Project, the Royal Thai Armed Forces Headquarters at Moo Sri Sub-district, Pak Chong District, Nakhon Ratchasima Province

6. Papers and Academic Articles

- 6.1 Deformation and Energy Loss in a Thin-Walled Circular Cylinder due to Rotation in Quasi-Static Axial Load Transfer to a Saturated Porous Elastic Half-Space from Embedded Elastic Rod, Asian Institute of Technology, Dissertation (D.Eng.) 1978
- 6.2 Article on "Load Transfer from an Elastic Pile to a Saturated Porous Elastic Soil" printed in International Journal for Numerical and Analytic Methods in Geomechanics Vol.5 1981
- 6.3 Defence White Paper (The First one in ASEAN), Strategic Research Institute, National Defence College
 - 6.3.1 Defence Strategy (Thai), The Defence of Thailand (English), 1994
 - 6.3.2 Defence Strategy (Thai), The Defence of Thailand (English), 1996
- 6.4 410 Days in East Timor: A Peace Keeper's Diary, 2002
- 6.5 Thai Translation: The French Wolf and the Siamese Lamb, The French Threat to Siamese Independence 1858 -1907, Patrick Tuck, 2000
- 6.6 Thai Translation: The French Wolf and the Siamese Lamb, The French Threat to Siamese Independence 1858 -1907: (Summary, 2008)
- 6.7 Other academic articles: The Equation of Armed Forces Development; Militarism for Executives; Building Military Leadership Characteristics; Training at the United States Military Academy; West Point; The Equation of Life; Aroka-Parama-Lapa (Health is Wealth); Life and Decision; Enrich Meanings for Life; and Crucial military matters

related to the policy level; military considerations for national security policy development; etc.



Gen. Jumphon Chalerytoy (Ret.)
Member of the National Defence College Alumni
Think Tank Foundation and Peace Network Foundation

GEN Jumphon Chalerytoy was born in 1959. He graduated from the Chulachomklao Royal Military Academy and joined the Royal Army in 1982 as an artillery officer. During his early life as a young artillery officer, he had served in several units both combat and education units.

From 1982 to 1995, his first commission as Field Artillery Forward Observer in the 8th Field Artillery Battalion of the 3rd Infantry Division, in the northeastern part of Thailand. He also enjoyed his position as an artillery instructor at the Artillery School, Artillery Center, Lopburi province before being assigned to the Light Infantry Division as the 9th Artillery Regiment S3, 19th Battalion XO, and Coordination Officer of the 9th Arty Regiment, before posting at the military units out of artillery corp, both the Royal Thai Army and the Royal Thai Armed Forces HQs

At the Army, he served as an instructor of Command and General Staff College since 1995. His last position before leaving the Army was the Army Attache in Canberra, Australia, between 2003-2006.

Upon his return from Australia in late 2006 onwards until retirement, his military career ended at the Royal Thai Armed Forces HQs. Here, he served in several sub-organizations. At the Policy and Plans Office, Directorate of Joint Operation, he was appointed as the Director of Policy and Strategy Division, and subsequently Deputy Director of Policy and Plans Office, before promoting to Major General as Staff Officer to the Chief of Defence Forces in 2012.

Under the RTARF HQs, in 2014, he was assigned as a Director of School of Interdisciplinary Security Studies, National Defence College, National Defence Studies Institute. Then, in 2015, he served as Director of Strategic Studies Center (SSC), known as the 'Defence Think-Tank'

organization, which providing strategic and security viewpoints and suggestions to the the RTARF HQs and government agencies

In 2016, he was promoted to 3star General as Adviser to the RTARF HQs. During two years onwards, he was assigned to supervise to the National Defence College and subsequently to the office of the Chief of Defence Forces. At his final year, he was promoted to 4 star General as Supervisor to National Defence Studies Institute and working until the end of September 2019.

During his jobs at the headquarters, he had been very much involved with the national and military strategic development from military level up to government level.

His field duty experiences during posting at the combat units and special assignments. He had been posted as the operation officer of the Surasi Task Forces, at the Thai-Burmese Border between 1992 and 1995. He also assigned as a combat royal guard during commissioned as a young officer, and as senior Royal Guard during the reign of King Bhumipol, Rama IX, since 2003 until 2017.

As for his education, General Jumphon completed his major educations of both military and civilian. For military career path educations. He holds a Bachelor of Science from Chulachomklao Royal Military Academy in 1982, diplomas from Army Command and General Staff College in 1991, from Army War College in 2002, and from National Defence College in 2013.

His overseas educations. For major military courses, he graduated of both the Artillery Officer Advance Course and Artillery Target Acquisition Survey Course at Ft Sill, Oklahoma, USA in 1989. He also received two Master Degrees, in Defence Studies, University of New South Wales, Australia, in 1997, and in Political Science (Diplomacy and International Relation) from Thammasat University, Thailand, in 2003.

He was married and has no children. His favorite hobbies, besides sports and adventures, is reading.

He has been invited to give lectures in defence education institutes, such as Joint War College, and Strategic and Security Center, on the topics related to strategy development, and driving mechanism for strategy development process.

He is now a member of the National Defence College Alumni Think Tank Foundation; Peace Network Foundation; and Senior Volunteer for Brain Bank, National Social and Economic Development Office.



Gen. Jerdwut Kraprayoon
Special Advisor Royal Thai Armed Forces HQ

Birth Date: 2 January 1961

Education: B.S. Chula Chomklao Royal Military Academy
M.S. Industrial Engineering, University of Oklahoma, USA
Armor Officer Advance Course, Ft. Knox, Kentucky, USA
Command and General Staff College, RTA
Command and General Staff College, Ft. Leavenworth, Kansas, USA
Royal College of Defence Studies, London, UK
National Defence College, Thailand Class 53

Previous Position: Instructor, Command and General Staff College, RTA
Commander, 4th Armor Battalion
Assistant Army/Defence Attaché, Washington DC/ Military Advisor to Thai
Permanent Mission UN/NY
Staff Officer, Directorate of Joint Intelligence, RTAF
Staff Officer, Chief of Staff, RTAF
Staff Officer, Deputy Supreme Commander
Staff Officer, Supreme Commander
Director, Peace Operations Centre
Commander, Joint War College
Deputy Commanding General, National Defence Studies Institute
Special Advisor, Royal Thai Armed Forces HQ

Special Assignment: Advisor, Senate Committee on Military and National Security



Lt.Gen. Nopadon Mungkalaton
Special Expert, Royal Thai Armed Forces HQ (RTARF)

Military Educations

- Armed Forces Academies Preparatory School, Class 22, 1979-81
- Chulachomkloa Royal Military Academy, Class 33, 1st year Army Scholarship Cadet, 1982
- Royal Military Academy Sandhurst Class SMC 31, United Kingdom, 1983
- Command and General Staff College, Class 73, Royal Thai Army, 1995
- United Nations Staff Officer Course – UNSOC II, SWEDINT, Sweden, 1996
- Command and General Staff College, RTA 1994 – 1995
- National Defence College, Class 57, Thailand, 2014

Civilian Educations

- Bachelor of Science in Chemical Engineering, Case Western Reserve University, U.S.A., 1988
- Master of Defense Studies, The University of New South Wales, Australia, 2001
- Doctor of Philosophy in Development Administration (International Program), NIDA, Thailand, 2018

Special Training Courses:

- Executive Leadership Course, Cornell University, New York, U.S.A., 2010
- United Nations Peacekeeping Operation Contingent Commander Course, CCMR, U.S. Center of Excellence for Peacekeeping Study, Naval Postgraduate School, Monterey, California, U.S.A., 2012
- Program for Executives in Logistics and Technology (LOGTECH), The University of North Carolina at Chapel Hill, North Carolina, U.S.A., 2017

Major Appointments:

- Deputy Superintendent, National Defence College, NDSI, 2016 – 19
- Deputy Director of Intelligence, RTARF, 2019
- Special Expert, RTARF, 2020

Special Appointments:

- United Nations Peacekeeping Operation in East Timor (UNTAET), 2001
- Ceasefire Monitoring Mission in Aceh, Indonesia, 2003
- Coalition Operations in Iraq, 2003
- Advisory Committee to Prime Minister on Strategy and Security Policy, 2004
- Aceh Monitoring Mission, 2005
- Military Advisor to Permanent Mission of Thailand to the United Nations at New York, 2007-10
- Sub-committee for Security Sector Reform Committee of the Senate, 2012
- Assistant to the Secretary of the National Justice Reform Committee (Police), 2017

Present Works:

- Academic Advisor to Security Management and Leadership for Executive Program, NDC, 2020 Present



Lt.Gen. Apisak Sombutcharoenon
National Defence Studies Institute's Advisor, Royal Thai Armed
Forces Headquarters (NDC NDSI RTARF)

Service (Organization): Royal Thai Armed Forces Headquarters (RTARF)

Branch (Specialization): Artillery

Date of Birth: 29th August 1962

Place of Birth: Nonthaburi Province, Thailand

E-mail address: apisak07@gmail.com

Previous Assignments/Work Experience:

- Battery Commander / 711th Field Artillery Battalion, Artillery Division, Lopburi Province
- Staff officer G3/ 1st Army Area HQs
- Operations and Trainings officer/1st Army Area HQs
- 9th Artillery Battalion Commander, 9th Infantry Division, Kanchanaburi Province
- Artillery Affair Officer, 1st Army Area HQs
- Deputy Director Joint and Combine Training Division, Joint and Combined Exercise Planning Office (J7), RTARF
- Attach to Chief of Defence Forces' Office (Senior Col)
- Operation Officer, Directorate of Joint Operations (Senior Col)
- Deputy Director Strategic Studies Center (DSSC), National Defense Studies Institute (NDSI)
- Director Strategic Studies Center (DSSC), National Defense Studies Institute (NDSI)
- Director of Office of Operations for Border Security (DOBS), Department of Border Affairs (DBA)
- Director of Institute of Security Psychology, National Defence Studies Institute, Royal Thai Armed Forces Headquarters (ISP NDSI RTARF)

- Deputy Director National Defence College, National Defence Studies Institute, Royal Thai Armed Forces Headquarters (NDC NDSI RTARF)

Education Background:

- Armed Forces Academy Preparatory School (Pre-cadet Class 23)
- Chulachomklao Royal Military Academy (CRMA class 34)
- Australian Advance English Language Course, Defence International Training Center (DITC), Melbourne, Australia (2000)
- Master of Defence Studies / Australian Defence Force Academy (ADFA) , Canberra , Australia (2000-2001)

Military Studies (Civilian Studies)/Training Courses in Country and Overseas:

Domestic Military Courses

- Parachute course, Special Warfare Center, Lopburi Province, Thailand
- Ranger Course, Special Warfare Center, Lopburi Province, Thailand
- Field Artillery Officer Basic Course, Artillery Center, Lopburi Province, Thailand
- Field Artillery Officer Advance Course, Artillery Center, Lopburi Province, Thailand
- Army General and Staff College Course (Class 74), Bangkok, Thailand
- Joint Staff Course (Class 51), Joint Staff College, National defence Studies **Institute.**

Oversea Courses

- Air Defense Artillery Officer Advance Course/ Fort Bliss, Elpaso, Texas, USA (1994)
- Oversea Joint Warfare / New Castle, Australia (1998)



AVM. Poomjai Leksuntarakorn
Director, Strategic Studies Center,
National Defence Studies Institute

Date of birth 20 July 1964
Place of birth Nonthaburi Province
Religion Buddhist

Areas of Responsibility

To accumulate and evaluate the data and information related to strategic and security as well as providing opinion and suggestions on strategic aspects to the high echelon commanders, Royal Thai Armed Forces Headquarters, on related matters

Educational background

Military Education

- Armed Forces Academies Preparatory School (Class 24)
- Royal Thai Air Force Academy (Class 31)
- Command and General Staff College (Class 81)
- Joint Staff College (Class 50)

Military Courses

- Air Force Officer School, Fuestenfeldbruck Germany
- Basic Course of Civil Engineer Officer, Directorate Civil Engineering, Royal Thai Air Force
- Squadron School (Class 91), Royal Thai Air Force.

Graduation / Courses

- Bachelor/Master in Civil Engineer, Germany
- Master of Business Administration, Kasetsart University
- Integrated Logistic Support System (Basic and Advanced Level), Australia

- United Nation Staff Officer Course (UNSOC), Hamburg Germany
- Crisis Intervention in the Community, Haifa Israel.
- The 15th International Symposium Course 2012, China.
- The Strategist Course 9th, Strategic Studies Center, National Defence Studies Institute
- The Future Leader Programme 4th, Strategic Studies Center, National Defence Studies Institute
- ASEAN Defence Leadership Development Programme 2015, Strategic Studies Center, National Defence Studies Institute
- Ph.D. (Candidate), 2019.

Operation appointments

- Master in Civil Engineer Department, Royal Thai Air Force Academy
- Civil Engineer Officer of Civil Engineering Office, Support Services Department, Supreme Command
- Assistant Director of Strategic Studies Division, Joint Staff College, National Defence Studies Institute
- Director, Procurement Division General Support Office, Armed Forces Development Command
- Operating Officer to the Royal Thai Armed Forces Headquarters
- Director of Regional Studies Division, Strategic Studies Center, National Defence Studies Institute.
- Director of Economic and Social Psychology Division, National Defence College, National Defence Studies Institute.
- Deputy Director of the Office of Joint Logistics, Directorate of Joint Logistics, Royal Thai Armed Forces Headquarters.
- Director of Strategic Studies Center, National Defence Studies Institute. (Present)

Professional experiences

- Civil Aviation Security
- Nuclear Learning in South Asia
- Defence Capability Development
- Disaster Management particularly in the consequences of Water Crisis
- Security Sector Reform / Governance
- Trends of Security System of Thailand: beyond the ASEAN Community 2015
- Trends of Terrorism in Thailand and ASEAN beyond 2015

Professional titles

- Civil Aviation Security Seminar, NADI Meeting in Singapore, February 2012.
- The next decade of Nuclear Learning in South Asia, posted by Department of National Security Affairs, Naval Postgraduate School, held in Bangkok, May 2012.
- Defence Capability Development Seminar , Bangkok, May 2012.
- International Academic Seminar on “Disaster Management: International Community Cooperation in Dealing with the Challenges and the Consequences of Water Crisis”, held in Bangkok, June 2012.
- Discussion on Building Successful Security Sector Governance Lessons from South-East Asia, organized by Friedrich-Ebert-Stiftung, Bangkok, Thailand, August 2012.
- The Challenge and Prepare in Security System of Thailand: beyond the ASEAN Community 2015, organized by Senator House, August 2012.
- Seminar/Discussion on “Trends of Terrorism in Thailand and ASEAN leading to and beyond the ASEAN Community”, Bangkok, Thailand, August 2012.
- Academic Exchanges and Cooperation with the China Institutes of Contemporary International Relations (CICIR) and the China Institute for International Strategic Studies (CISS), Beijing, China, 2013.
- Security Dialogues with Kaisone Phomvihane National Defence Academy, Lao PDR, 2013.
- Security Dialogues with Institute for Defence Strategy, Ministry of National Defence of Vietnam, 2013.
- Workshop on Cyber Security: Emerging Challenges and Responses, Singapore, 2014.
- Non Traditional Security Dialogues in the 7th NADI Annual Meeting, Nay Pyi Taw, Myanmar, 2014.
- Academic Exchanges and Cooperation with the China Institutes of Contemporary International Relations (CICIR) and the China Institute for International Strategic Studies (CISS), Beijing, China, 2014.
- Workshop on Energy Security “Towards Enhancing Regional Harmony and Promoting Energy Security in Southeast Asia” Lombok, West Nusa Tenggara Indonesia, 2014.
- Security Dialogues with the Research Institute for Peace and Security (RIPS), Japan, 2014.
- Workshop on The Role of Military in Enhancing Human Security, Pattaya, Thailand, 2014.
- Present at the 18th ARF HDUCIM (ASEAN Regional Forum – Head of Defence Universities/Colleges/Institutions Meeting), South Korea, 2014.
- Workshop on “47th Pacific Area Senior Officer Logistics Seminar”. Tokyo, Japan, September, 2018.



Gp.Capt. Chularat Pethcharawises
Deputy Director, Strategic and Security
Research Studies Division, Strategic Studies Center,
National Defence Studies Institute

Date of Birth 29 Dec 1964 **Place of Birth:** Chaiyaphum Province
Religion Buddhism
Home Address 2/328 Shukhaphibal 5 Rd. Ongoen, Saimai, Bangkok 10220
Office Address 62 Vibhavadi Rangsit Rd., Dindaeng, Bangkok 10400
Tel 02-2755715, 081-8172842
E-mail Address chulawise@yahoo.com

Education Background

- High School: Chaiyabhumbhakdeechumphon school, 1983
- Bachelor's degree: Nursing Science, Air Force Nurse College, 1987
- Master's degree: Master of Nursing Science, Nursing Administration, Chulalongkorn University, 1994
- Doctoral degree: Doctor of Philosophy in Education, Non-Formal Education Chulalongkorn University, 2012

Education Background (MILITARY)

- SOS ' 88: Squadron Officer School ,Royal Thai Air Force, 1997
- SAOC'54: Senior Air Officer College, Royal Thai Air Force, 2008
- Strategist'10: Strategic Course, Strategic Studies Center (SSC), National Defence Studies Institute, Royal Thai Armed Force Headquarters, 2015
- ISP' 118: Institute of Security Psychology, National Defence Studies Institute Royal Thai Armed Forces Headquarters, 2018

Foreign EDUCATION

Managing Defence in the Winder Security Context and Strategic Leadership Programme Export, Cranfield University (National Defence Studies Institute, Royal Thai Armed Force Headquarters, 2016)



Col. Suthas Kramnaimeang
Deputy Director, Strategic and Security Research
Studies Division, Strategic Studies Center, National
Defence Studies Institute

Born March 12, 1963

Address 183/854 Songrapha Road, Si Kan Sub-district, Don Mueang District, Bangkok 10210

Current Position

- Deputy Director of the Strategic and Security Research Division Strategic Studies Center, National Defense Studies Institute

history of education

- Bachelor of Business Administration, Major in Finance - Banking, Sripatum University, 1988
- Master of Business Administration, Major General management, Rajamangala University of Technology Thanyaburi, 2007
- Doctor of Education Administration and Change Leadership, Eastern Asia University, 2011

Special service

- Support Thai - Cambodian Border Office, Aranyaprathet District, Sa Kaeo Province



Lt.Col. Tamrongchai Noonpugdee
Attached to Regional Studies Division,
Strategic Studies Center, National Defence Studies Institute

Education Background

- Kasetsart University Laboratory School, Class of 25
- Armed Forces Academy Preparatory School, Class of 42
- Bachelor of Engineering (Electrical engineering: Communication), Chulachomkiao Royal Military Academy, Class of 53
- Army Pilot Trainee, Army Aviation school, Class of 52
- Master of Business Administration (Strategic management), Thammasat University
- Command and General Staff College, Class of 94

Training

- Comprehensive Crisis Management Course 19-1, Daniel Inouye Asia-Pacific Center for Security Studies
- Strategist Course, Class of 13, SSC NDSI

Previous Assignment

- Message center officer, Radio and message Company, 3rd Signal Battalion, 3rd Infantry Division
- Pilot acting Operation staff officer, Logistic staff office and Aviation safety officer, 3rd Air Mobile Company, Aviation Battalion, Army Aviation Center
- Company Commander, Aviation Company, 3rd Infantry Division
- Chief of Plan Section, Logistic Division, Army Reserve Training Center, Territorial Defense Command

Present Assignment

- Attached in Regional Studies Division, Regional Studies Division, Strategic Studies Center, National Defence Studies Institute
- Subcommittee and Assistant Secretary, Security Trends and Situations Assessment Subcommittee, National Drafting committee on National Security Conference/seminar in Country and Overseas
- Attend academic conference of The Track II Network of ASEAN Defence and Security Institutions (NADI) on “ASEAN cooperation on cyber capacity building”, Thailand
- Attend academic conference of The Track II Network of ASEAN Defence and Security Institutions (NADI) on “ASEAN cooperation on cyber capacity building”, Singapore
- Attend “9th ASEAN Defence Minister Meeting-Plus Experts’ working Group on Counter Terrorism Meeting”, Thailand
- Attend academic conference of The Track II Network of ASEAN Defence and Security Institutions (NADI) on “Strengthening ASEAN Defense Cooperation in order to Control Transnational Crimes in Southeast Asia” and present on this topic in Thailand’s perspectives, Indonesia
- Attend the 1st ASEAN-China Defense Think tank, Beijing China
- Attend and present Track II Network of ASEAN Defense and Security Institutions (NADI) Workshop on “Strengthening Defence Diplomacy: Challenges and Prospects of ADMM”, the Philippines
- Attend academic meeting SSC NDSI-French Institute of International Relations (IFRI), on “The current strategic trends in Southeast Asia”, SSC NDSI
- Attend academic meeting SSC NDSI-RAND Corporation on the relative state of play in the US-China strategic competition” and “How the US department of defense can better engage and meet the local demands in the region”, SSC NDSI
- Attend and present academic Webinar: SSC-APCSS “Security in the Mekong Sub-region: Thai and US perspectives”, SSC NDSI
- Attend and present SSC NDSI-China Institutes of Contemporary International Relations (CICIR) academic exchange, SSC NDSI
- Attend and present SSC NDSI-China Institute for International Strategic Studies (CISS) academic exchange, SSC NDSI

- Attend Discussion on Germany Policy guidelines for the Indo-Pacific region, ISC MFA, Thailand
- Attend and present DKI APCSS, Strategic Competition in the Indian Ocean Virtual Workshop, SSC, NDSI
- Attend ASEAN Regional Forum (ARF) Virtual Seminar on Preventive Diplomacy and Conflict mitigation
- Attend ASEAN Regional Forum (ARF) Virtual Workshop on Women, Peace and Security

Academic papers

- SSC Policy Brief

- Sea level rise: a New Normal, Learning and Prepare for sustainable Future
- Thailand opportunities with a volatility of Maekhong River water level
- Coping with Terrorism threats in the post-COVID-19 era

- SSC Journal, Track II Monitor Column, 100 articles

- Case study

- Artificial Intelligence: a turning point of Future warfare
- COVID-19 crisis: an impact on ASEAN Security

- Research

- The Mission for Armed Forces and security agencies in preparation for the development of the Eastern Special Development Zone
- Border management for coping with security threats in the decades: focusing on the eastern and western border of Thailand
- The challenges along the Mekong River: a case study in the Northeastern region of Thailand

- Papers

- A correlation reviews on the Strategic Studies Center action plan with the Royal Thai Armed Forces Headquarters action plan underneath the Causal Relationship (XYZ) Principle
- Recommendations for ASEAN and Thailand on Germany Policy guidelines for the Indo-Pacific region

THE DANIEL K. INOUE ASIA-PACIFIC CENTER FOR
SECURITY STUDIES TEAM



Geopolitics and Strategic Competition

Dr. Alexander L. Vuving

Dr. Alexander L. Vuving came to the Daniel K. Inouye Asia-Pacific Center for Security Studies in July 2008 from Tulane University, where he taught courses on International Relations, International Security, China and the World, and a field seminar in International Politics. Prior to Tulane, Dr. Vuving was a Research Fellow and an Associate of Harvard University's Belfer Center for Science and International Affairs at the Kennedy School of Government. He was also a Visiting Research Fellow at the Rajaratnam School of International Studies in Singapore. Dr. Vuving spent his formative years in Vietnam, Hungary, France, and Germany during times of dramatic changes—the wars in Indochina, the collapse of communism, and the European unification. These events have helped shape much of his professional curiosity.

Dr. Vuving's research interests cut across International Relations, Comparative Politics, and Historical Sociology. His major areas of research range from functional topics such as the Sources of State Behavior, the Making of Grand Strategic Change, and the Workings of Soft Power, to regional issues such as Asian Security, the Rise of China, and Vietnamese Politics. He has published in major scholarly journals and presented at leading universities and think tanks around the world.

Dr. Vuving serves on the Editorial Board of *Asian Politics and Policy*, a journal of the Policy Studies Organization, and is a referee for Oxford University Press, *International Security*, and *Asian Security*, among others. He is the guest editor of a special issue on "How China's Rise is Changing Asia's Landscape and Seascape" for *Asian Politics and Policy*.

Dr. Vuving studied Political Science, Economics, Sociology, and Electronic Engineering at Cornell University, the Johannes Gutenberg University, and the Budapest University of Technology. He received his master of arts (summa cum laude) in Political Science, Sociology,

and Economics, and his doctor's degree (*magna cum laude*) in Political Science from the Johannes Gutenberg University, Germany. He was a German National Merit scholar and a recipient of the prestigious Konrad Adenauer Foundation scholarship.



Strategic Thinking and Messaging in Complex Security Environments/ Security Implications of Climate Change

Dr. Ethan Allen

Dr. Ethan Allen joined the Daniel K. Inouye Asia-Pacific Center for Security Studies (DKI APCSS) in August, 2019. Previously, at Pacific Resources for Education and Learning, Dr. Allen oversaw the development and growth of PREL's Science, Technology, Engineering, and Mathematics education programs throughout Hawaii and the other U.S.-affiliated Pacific islands. As a central part of this work, Dr. Allen served as Principal Investigator of the National Science Foundation's Water for Life: Community Education for Water Conservation and Rainwater Harvesting in the United States Affiliated Pacific Islands program. This five-year, \$2.6 million project fostered broad community water science learning, improved access to potable water, and enhanced water security and resiliency for residents of Palau, the Marshall Islands, and Chuuk and Yap States in Micronesia. As part of this work, Dr. Allen co-authored a broadly useful 280-page reference, "Water for Life: A Pacific Island Handbook for Education, Health, and community Resilience."

Dr. Allen also served as Co-PI for an NSF INCLUDES project, Water Network for Team STEM, bringing together USAPI communities in collective impact endeavors to enhance drinking water security and resilience. He also headed up the external evaluation for the University of Hawaii's 'Ike Wai project – a five-year, \$20M grant from NSF's EPSCoR, to model and match groundwater resources in Hawaii

Outside of his formal work, for the past four years, Dr. Allen has hosted a weekly live-streamed Internet TV show, Likable Science, on ThinkTech Hawaii, promoting science and STEM as accessible and fascinating parts of all of our lives. He also hosted a bi-weekly show, Pacific Partnerships in Education, focusing of learning and teaching collaborations in the Pacific islands.

Earlier, Dr. Allen also served as President of the Board of Directors for the Hawaii Public Health Association.

Dr. Allen previously directed diverse science education improvement programs at the University of Washington's Center for Nanotechnology and Department of Molecular Biotechnology, and at the Institute for Systems Biology in Seattle, raising millions of dollars in grant funding and serving as Co-PI on several projects. Earlier in his career, he was an Associate Director for Policy and Planning at the Teachers Academy for Mathematics and Science in Chicago, and before that he served as an exhibit developer for the Museum of Science and Industry there.

Dr. Allen received his bachelor's degree in biology from the State University of New York at Binghamton, his doctorate in systems and integrative biology (neuroscience) from the University of Oregon, and did postdoctoral research both there and at the University of Texas at Austin.

Strategic Thinking and Messaging in Complex Security Environments

Mary Markovinovic

Mary Markovinovic has been the chief of public affairs for Asia-Pacific Center for Security Studies since May 2005. In this position, she manages APCSS' public affairs program and also serves as an adjunct faculty member lecturing on topics such as media relations, crisis communications and new media.

A graduate of the University of San Diego, she began her career as an editor at the Naval Supply Center, San Diego in 1986. One year later, after attending the Defense Information School, she was promoted to the Public Affairs Officer and remained there during its transition to the Fleet and Industrial Supply Center, San Diego. As PAO, she was responsible for PA support for contracting and logistics operations including developing the first customer-based website for a Navy Supply Center. Also, she coordinated a major community relations program in support of a major Navy fuel pipeline replacement project that ran through the city of San Diego

In 1998, she transferred to Navy Region Southwest to be the Public Affairs Program Manager, responsible for public affairs operations for Navy shore installations in California and Nevada. She streamlined public affairs operations under the regionalization program and coordinated responses related to A76 contracting. In addition, she was the emergency operations center PA rep during both drills and real-life emergencies and major community relations projects such as the Navy Broadway Redevelopment.

Ms. Markovinovic moved to Hawaii in 2003 taking a position as the chief of media relations for U.S. Army, Pacific (USARPAC) where she worked on issues such as the Stryker Brigade deployment, Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF), Pacific Armies Management Seminar, and the Army Transformation in the Pacific.



Economic Sustainability and Resiliency

Dr. Timothy Buehrer

Dr. Timothy Buehrer joined the Daniel K. Inouye Asia-Pacific Center for Security Studies (DKI APCSS) in September 2020. Dr. Buehrer has over 30 years' experience as an economist and a lawyer advising governments and other organizations in Southeast Asia, Micronesia, Africa, the Middle East, and the United States. Over his career Dr. Buehrer has organized and taught in well over one hundred training events for government officials and supported efforts of the U.S. Department of State and the U.S. Agency of International Development to promote stronger linkages between the U.S. and the countries where he was working.

For over a decade, Dr. Buehrer directed a series of USAID projects supporting regional integration in Southeast Asia through the ASEAN Secretariat. During that time he worked on a wide variety of issues relating to trade facilitation, micro, small and medium enterprise development, the digital economy, human rights, education, labor, disaster management, environmental protection, and pandemic response. Prior to his work in ASEAN, Dr. Buehrer supported ministries of finance, trade, and planning in Indonesia, Mozambique, and Egypt on trade, macroeconomic, monetary policy, exchange rate, poverty, institutional development, and customs issues. In all of these efforts he worked in or led teams of American, local, and regional experts to deliver needed and timely advice on core policy issues.

Earlier in his career, Dr. Buehrer worked in the Federated States of Micronesia on fiscal and development issues, including fisheries management, public investment, and the establishment of a flag of convenience, among other matters. He also practiced law in Washington, D.C., participating in large scale litigation related to the natural gas crisis of the 1970s.

Dr. Buehrer received Bachelor of Science degrees in Chemistry and Political Science from the Massachusetts Institute of Technology, a Juris Doctor degree from Harvard Law School, a Masters of Public Policy from the Kennedy School of Government, Harvard University, and a Ph.D. in Public Policy from the Harvard Graduate School of Arts and Sciences. He is a member of the bars of the District of Columbia and the Supreme Court.



Transnational Organized Crime (TOC) in the Indo-Pacific
Prof. J. “Lumpy” Lumbaca, US Army Special Forces (Retired)

Prof. J. “Lumpy” Lumbaca, US Army Special Forces (Retired), joined the Daniel K. Inouye Asia-Pacific Center for Security Studies in March 2019. Prior to his arrival at the Center, Lumpy served for over twenty years on Active Duty in the US Special Operations Forces (SOF) community with special emphasis on the Indo-Pacific Region. He commanded Green Berets at the A-Team and B-Team levels, and held various other positions at Special Operations Command Pacific (SOCPAC), the Joint US Military Advisory Group Thailand (JUSMAGTHAI), and the US Army’s 1st Special Forces Group (Airborne). He led combat, operational, diplomatic, and/or inter-agency activities in nearly every country throughout North, South, and Southeast Asia, as well as Haiti and Iraq.

Lumpy was commissioned in the Army at Norwich University where he graduated summa cum laude and Distinguished Military Graduate (DMG) with a Bachelor of Arts in International Studies. He earned his Master of Science in Defense Analysis (Irregular Warfare) from the US Naval Postgraduate School. He is currently a PhD student in the Helms School of Government at Liberty University.

Lumpy is a graduate of the DKI APCSS Advanced Security Cooperation Course 18-1, US Army Command & General Staff College, Joint Forces Staff College, Special Forces Qualification Course (Distinguished Honor Graduate), Airborne, Ranger, Jumpmaster, Survival Evasion Resistance Escape (SERE Level C – High Risk), Infantry Officer Basic Course, Infantry Maneuver Captain’s Career Course, Combined Arms and Services Staff School (CAS3), DoD foreign language training and immersion (several locations), USAID/OFDA Joint Humanitarian Operations Course (JHOC), DoD Humanitarian Assistance Response Training (HART) course, and the Indian Army’s Junior Command

course, among others. He is a Joint Qualified Officer (3A and 3L), fluent in Thai (3/3), and has earned numerous US and foreign military decorations, badges, and awards



Technology and Strategic Competition in the Indo-Pacific

Dr. John Hemmings

Dr. John Hemmings, joined the Daniel K. Inouye Asia-Pacific Center for Security Studies (DKI APCSS) in July 2019. His areas of focus at DKI APCSS are Northeast Asian security, Japanese defence policy, the Indo-Pacific concept, alliance theory, and US alliances. He takes a special interest in 5G and national security.

Prior to arriving at DKI APCSS, Dr. Hemmings was the founding Director of the Asia Studies Centre and Deputy Research Director at the Henry Jackson Society, a trans-Atlantic think tank in London. During this time, he regularly briefed multiple government departments and agencies, including the UK Cabinet Office, the Ministry of Defense, and gave testimony to the House of Commons Defence Committee on security in East Asia. While he was at the Henry Jackson Society, Dr. Hemmings co-authored a study on Huawei, 5G and the Five Eyes, multiple studies on the Indo-Pacific, and coordinated a project on diplomacy on the Korean peninsula.

Between 2007 and 2011, Dr. Hemmings worked at the Royal United Services Institute (RUSI) in Whitehall, where he was a researcher on Northeast Asian defence and security studies. During this period, he undertook research on South Korean stabilization activities in Kabul and Parwan, Afghanistan on behalf of the Asia Foundation and reviewed Japanese defense industrial policy. Over the course of his career, Dr. Hemmings has held honorary fellowships with the Center for Strategic and International Studies (CSIS), the Pacific Forum, and a visiting scholarship with Hitotsubashi University in Japan.

Dr. Hemmings regularly writes about international affairs for the Lowy Interpreter, the National Interest, CapX and the Telegraph newspaper. He also publishes with academic journals, and has written for International Affairs, the RUSI Journal, Issues and Insights, the Harvard Asia Quarterly,

and International Politics Review. He gained his Masters degree in International Peace and Security from Kings College London in 2007 and gained his PhD in International Relations from the London School of Economics in 2017, where he wrote about the US-Japan-Australia trilateral.



Cyber Security in the Indo-Pacific

Dr. Virginia Bacay Watson

Dr. Virginia Bacay Watson is a professor at the Asia-Pacific Center for Security Studies in Honolulu, Hawaii. Her areas of interest and publication include science, technology and security in the Asia-Pacific region, water security, and Southeast Asia geopolitics. She has held appointments at the University of Denver and Colorado School of Mines, and served as an exchange faculty for the University of Colorado in Beijing, China, as well as a consultant on issues pertaining to water security, science, technology & security, Southeast Asia and the Philippines.

Dr. Watson obtained her bachelor's degrees in Asian Studies and Management of Financial Institutions from the Philippines. She holds a master's degree in Asian Studies from Cornell University and a doctorate in International Studies (in the field of comparative politics) in the areas of Public Policy and International Technology Assessment & Management from the University of Denver's Josef Korbel School of International Studies. She is fluent in Tagalog and Ilonggo and conversant in Japanese and Spanish.



Indo-Pacific Space Diplomacy Dr. Alfred Oehlers

Dr. Alfred Oehlers joined the Asia-Pacific Center for Security Studies in March 2007. He was previously an associate professor at Auckland University of Technology, New Zealand. Dr. Oehlers obtained his doctorate in political economy from the University of Sydney. He holds both a master's and a bachelor's degree in economics, from Macquarie University, Australia.

Dr. Oehlers is a specialist in the political economy of economic growth and development, with reference to the countries of the Asia-Pacific region. His teaching has ranged widely during his career, spanning courses as diverse as international business, economics, politics, public policy, international relations, Asian studies, history, and other social sciences. He has taught at Massey University in New Zealand, Macquarie University, the University of Sydney in Australia, and the Institute of Development Studies at the University of Helsinki, Finland. In New Zealand, Dr. Oehlers enjoyed a long association with the New Zealand Defense Force Command and Staff College, where he contributed regularly to lectures as well as other professional military training activities. Dr. Oehlers has regularly been engaged by philanthropies and non-government organizations as a consultant on economic and political developments in the Asia-Pacific and workshop facilitator for a variety of capacity-building initiatives for civil society actors.

Dr. Oehlers has written widely, covering a range of issues connected with the rapid development of East and Southeast Asia. Much of this research has focused on Myanmar and Singapore, on topics relating to governance, democratization, corruption, public health, and ethnic conflict, amongst others. Some recent publications include: "A World on Fire? Some Notes on Burma", in N. Tarling and E. Gomez (eds.), *The State, Development and Identity in Multi-Ethnic*

Societies: Ethnicity, Equity and the Nation (2008), "A Critique of ADB Policies Towards the Greater Mekong Sub-Region", *Journal of Contemporary Asia* (2006), "Old and New Wars: Minority Groups in Burma", in M. Waibel, R. Jordan & H. Schneider (eds.), *Krisenregion Südostasien: Alte Konflikte und neue Kriege*, Horlemann Verlag (2006), with N. Tarulevicz, "Capital Punishment and the Culture of Developmentalism in Singapore", in C. Boulanger and A. Sarat (eds.), *The Cultural Lives of Capital Punishment* (2005), "Corruption: The Peculiarities of Singapore", in N. Tarling (ed.), *Corruption and Good Governance in Asia*, Routledge Curzon (2005), "Public Health in Burma: Anatomy of a Crisis", *Journal of Contemporary Asia* (2005).

Dr. Oehlers has recently extended his teaching and research interests to include the Pacific islands region, with several ongoing projects focusing on issues such as development and security, climate change, security sector development, and regionalism.



Indo-Pacific Space Diplomacy

Lt Col Shannon Vinson

"Shannon joined the Daniel K. Inouye Asia-Pacific Center for Security Studies (DKI APCSS) in December 2019 as a Regional Security Studies Research Fellow. Previously assigned to the Pentagon detailed to the U.S. Office of the Secretary of Defense International Security Affairs and Space Policy teams, Shannon had the historic opportunity as a Department of Defense Congressional Fellow to work the Legislative Proposal establishing U.S. Space Force into law. With her unique background in journalism, industry, academia, and the U.S. Air Force flying C-130s all over the U.S. Indo-Pacific area of responsibility (AOR), Shannon brings decades of diverse experience education to the Center."

JUSMAG THAI Representative

James L. Wayman

Acting Deputy Chief of Mission

Jim Wayman is from Indiana. He has been in the United States Foreign Service for 32 years, serving overseas tours in Mexico City, Trinidad, Beijing, and two tours in Seoul. His most recent assignment was in the Pentagon in Washington as Foreign Policy Advisor to the Chief of the National Guard. Earlier assignments include Director of the Office of Multilateral Nuclear Security Affairs in the State Department Bureau of International Security Affairs; Director of the Office of Regional Affairs in the State Department Bureau of Legislative Affairs; and Minister Counselor for Political Affairs at the American Embassy in Seoul.


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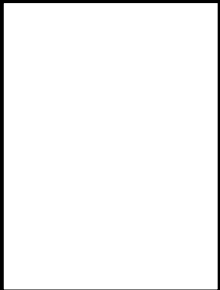
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