

SYLLABUS
P P A D 5 1 9 8
WINTER 2015

Nuclear Disarmament Verification (Practicum)

THE AMERICAN UNIVERSITY IN CAIRO
SCHOOL OF GLOBAL AFFAIRS AND PUBLIC POLICY
DEPARTMENT OF PUBLIC POLICY AND
ADMINISTRATION

Instructor: ¹Ambassador Professor Sameh Aboul Enein, Assistant Professor for International Security, Disarmament, and Conflict Studies.

Class Hours: **Please check the proposed dates and timing below in the syllabus.

Class room: Jameel C106

Office hours: After the class and by appointment.

E-mail address: [samehenein@aucegypt.edu/](mailto:samehenein@aucegypt.edu) samehenein@yahoo.com

MISSION OF THE PUBLIC POLICY AND ADMINISTRATION DEPARTMENT

Our mission is to equip future leaders with the conceptual framework and the specific skills needed to be effective and innovative policy makers and administrators in various spheres of governance within governmental, regional, international and multinational institutions through structural course work, internship and research addressing public policy and administration issues in the region.

In support of this mission the department:

- Provides a high quality contemporary-style public policy and administration education that blends a global perspective with national cultures and is relevant to the public policy and administration needs of Egypt and the region.
- Provides programs that encourage the development of a community service spirit that emphasizes integrity, action orientation, objectivity, broad mindedness and teamwork
- Provides a learning environment that fosters faculty/student communication and promotes lifelong learning and career development
- Encourages faculty development activities that improve teaching, maintain competence and that keep faculty current with ideas and concepts in their field.
- Seeks to develop a portfolio of intellectual contributions to learning and pedagogy, to practice, and to the theory and knowledge base of the disciplines.
- Encourages the establishment of close partnerships with the public policy and administration community through consultancies and service that enhance the intellectual and economic quality of Egypt while enriching the learning process.

¹ <http://www.gcsp.ch/About-Us/Global-Fellowship-Initiative/Associate-Fellows/Ambassador-Dr-Sameh-ABOUL-ENEIN>

COURSE DESCRIPTION

Verification of arms control and disarmament agreements has become integral to the practice of international politics. Whether performed by specialized agencies like the International Atomic Energy Agency (IAEA) or directly between states as in the case of Russian-US nuclear arms reduction agreements, the salience and importance of verification cannot be ignored. Recent inspections in Iran and Syria are clear examples of how central international verification has also become relevant to conflict resolution efforts. During the study visit, students will play a crucial role during the simulation exercise, which is about "nuclear warhead dismantlement verification mission by international inspectors in a nuclear facility." The study data will be collected in several different ways as well as verification team will produce periodical written reports and participants will also be observed operating as a group.

Accordingly, the study visit to OSLO will include the following topics:

- Addressing verification in the context of nuclear disarmament.
- Examining and developing a better understanding of how verification methods can be applied to reductions in nuclear warheads and ultimately getting rid of them altogether.
- Training a new generation of students through organizing hands-on student simulations that introduces participants to some of the issues surrounding arms control and disarmament inspections.

TEACHING METHODS

The teaching methods for this course will alternate between lecturing; presentation and class discussions of assigned readings; and presentations by guest speakers and discussions. Students will be asked successively to briefly and critically present and discuss the readings assigned to them.

The course consists of:

- ✓ Lectures on International security, Nuclear disarmament Verification, Non Proliferation Treaty (NPT), International Atomic Energy Agency (IAEA), Comprehensive Nuclear Test Ban Treaty Organization (CTBTO), and United Nations (UN).
- ✓ Class discussions and student presentations on assigned International security, UN security organizations, and regional organization topics.
- ✓ Simulation games illustrating various aspects of International security and regional organizations discussions of simulation outcomes in terms of formal decision making models and negotiation theory.

COURSE GUIDELINES:

Students are kindly advised to:

- Regularly attend class sessions.
- Regularly check your email as important announcements/reminders will be sent by the assistant- Heba Galal.
- Prepare beforehand for class sessions by reading text assignments and identifying topics that needs clarification. Feel free to raise questions to ensure enough understanding.

- Participate actively in class discussions and keep notes on your behavior, choices and rationales as well as notes on your partners' and opponents' behavior.
- Communication skills complement analytical ones, so pay attention to completeness, clarity, and aspect of written work.

GRADING SYSTEM

The evaluation of students will be distributed as follows:

Attendance & Participation	15%
Presentation	25%
Oslo study Simulation (2 essays)	40%
Final Exam (report on the visit)	20%
Total	100%

Required Readings

Avenhaus, Rudolf. *Verifying Treaty Compliance: Limiting Weapons of Mass Destruction and Monitoring Kyoto Protocol Provisions*. Berlin: Springer, 2006. Print ([this is ebook available via AUC library](#)). **Please read pp. 13-59.**

Cliff, David, Hassan Elbahtimy, and Andreas Persbo. "Verifying Warhead Dismantlement: Past Present Future." *Vertic Research Reports Number 9* (September 2010): 1-100. Web. **Please read pp. 16-21**
<<http://www.vertic.org/media/assets/Publications/VM9.pdf>>.

Corera, Gordon. "How to Dismantle a Nuclear Bomb." BBC, 16 July 2009. Web.
<<http://news.bbc.co.uk/2/hi/europe/8154029.stm>>.

Fetter, Steve. "Verifying Nuclear Disarmament." (1998): 1-37. Web.
<<http://drum.lib.umd.edu/bitstream/1903/4023/1/1998-VerifyingNuclearDisarmament.pdf>>.

Gallagher, Nancy. "The Politics of Verification: Why 'how Much?' is Not enough." *Contemporary Security Policy* 18.2 (1997): 138-70. Print. ([This is e-journal available via AUC library](#)).

Monitoring Nuclear Weapons and Nuclear-Explosive Materials: An Assessment of Methods and Capabilities. National Academies Press, 2005. Print. ([This is ebook available via AUC library](#)).

Persbo, Andreas, and Marius Bjørningstad. "Verifying Nuclear Disarmament: The Inspector's Agenda." *Arms Control Today* (June 2008) Web.

<http://www.armscontrol.org/act/2008_05/PersboShea>.

Schaper, Annette. "Verifying Nuclear Arms Control and Disarmament." (2000): 57-69. Web.

<http://www.abolitionforum.org/site/wp-content/uploads/2011/08/Verifying-Nuclear-Arms-Control-and-Disarmament_Schaper.pdf>. **Please read pp 61-63.**

United Nations Institute for Disarmament Research (UNDER). *Coming to Terms with Security: A Handbook on Verification and Compliance*. Geneva, Switzerland: United Nations Institute for Disarmament Research (UNDER) and The Verification Research, Training and Information Center (VERTIC), 2003. Web.

<<http://www.unidir.org/files/publications/pdfs/coming-to-terms-with-security-a-handbook-on-verification-and-compliance-302.pdf>>.). **Please read pp. 1-15**

Zarimpas, Nicholas, ed. *Transparency in Nuclear Warheads and Materials: The Political and Technical Dimensions*. N.p.: Stockholm International Peace Research Institute (SIPRI), 2003. Oxford University Press. Web.

<<http://books.sipri.org/files/books/SIPRI03Zarimpas/SIPRI03Zarimpas.pdf>>.

Please read pp. 155-161.

ACADEMIC INTEGRITY

All students are expected to agree to and comply with the University Academic Integrity Policy which states

“Valuing the concepts of academic integrity and independent effort, the American University in Cairo expects from its students the highest standards of scholarly conduct. The University community asserts that the reputation of the institution depends on the integrity of both faculty and students in their academic pursuits and that it are their joint responsibility to promote an atmosphere conducive to such standards.”

Detailed information about the University Academic Integrity Policy may be found in the Catalog and on the University Web site.

SCHEDULE OF TOPICS AND ASSOCIATED READINGS: -

Cairo- 2015 (15 hrs)			
Session number	Topic	Assignments And exams	Readings (see detailed bibliography above)
** (1) Sunday, 4, 2015 6:30 PM -9:00	Nuclear disarmament Verification: - Non Proliferation Treaty (NPT) and Weapons	General Introduction	Aboul-Enein, Sameh, Lawrence Freedman, Frank Miller, Jonathan Schell, Brad

<p>PM</p>	<p>Mass Destruction ,</p> <ul style="list-style-type: none"> - International Atomic Energy Agency (IAEA), - Comprehensive Nuclear Test Ban Treaty Organization (CTBTO), - United Nations (UN), - NGOs 		<p>Roberts, Harald Müller, Bruno Tertrais, Achilles Zaluar, Scott Sagan, Takaya Suto, Hirofumi Tosaki, James Doyle, Patricia Lewis, Ian Hore-Lacy, Pan Zhenqiang, V.R. Raghavan, Ernesto Zedillo, and Zia Mian. Abolishing Nuclear Weapons: A Debate. Washington, DC: Carnegie Endowment for International Peace, 2009. Web<http://carnegieendowment.org/files/abolishing_nuclear_weapons_debate.pdf></p>
<p>(2) Tuesday 6, 2015 6:30 PM -9:00 PM</p>	<p>Nuclear disarmament Verification:</p> <ul style="list-style-type: none"> - Non Proliferation Treaty (NPT) and Weapons Mass Destruction , - International Atomic Energy Agency (IAEA), - Comprehensive Nuclear Test Ban Treaty Organization (CTBTO), - United Nations (UN), - NGOs 	<p>Briefing on the study visit to Oslo</p> <p>-Dr. Hassan Elbahtimy, Coordinator at King's Center for Science and Security Studies(CSSS)</p>	<p>Aboul-Enein, Sameh, Lawrence Freedman, Frank Miller, Jonathan Schell, Brad Roberts, Harald Müller, Bruno Tertrais, Achilles Zaluar, Scott Sagan, Takaya Suto, Hirofumi Tosaki, James Doyle, Patricia Lewis, Ian Hore-Lacy, Pan Zhenqiang, V.R. Raghavan, Ernesto Zedillo, and Zia Mian. Abolishing Nuclear</p>

			<p>Weapons: A Debate. Washington, DC: Carnegie Endowment for International Peace, 2009. Web<http://carnegieendowment.org/files/abolishing_nuclear_weapons_debate.pdf></p>
<p>(3) Thursday 6, 2015</p> <p>5:30 PM -7:30 PM</p>	<p>Nuclear Disarmament Verification:</p> <ul style="list-style-type: none"> - Case studies - Nuclear reactors - Warhead dismantlement 	<p><i>Library Orientation Session</i></p> <p>(Ms Kathryn Vanderboll-Reference/Instruction Librarian)</p> <p>- Proposed video shared by the IAEA, explaining an inspection at the Dukovany Nuclear Power Plant, in the Czech Republic.</p> <p>Link: http://www.iaea.org/safeguards/multimedia/videos/nuclear-inspection.html</p> <p>-Suggested links for reference via AUC library :</p> <ol style="list-style-type: none"> 1) Public Affairs Index. 2) Political Science Complete. <p>Link: http://www1.aucegypt.edu/library/libdata/title_i.cfm#P</p>	<p>About-Enein, Sameh, Lawrence Freedman, Frank Miller, Jonathan Schell, Brad Roberts, Harald Müller, Bruno Tertrais, Achilles Zaluar, Scott Sagan, Takaya Suto, Hirofumi Tosaki, James Doyl, Patricia Lewis, Ian Hore-Lacy, Pan Zhenqiang, V.R. Raghavan, Ernesto Zedillo, and Zia Mian. Abolishing Nuclear Weapons: A Debate. Washington, DC: Carnegie Endowment for International Peace, 2009. Web<http://carnegieendowment.org/files/abolishing_nuclear_weapons_debate.pdf></p>

(Second week- January 11- 15)

**Library Research requested by students in preparation
for their assigned presentations**

(Ms Kathryn Vanderboll- Reference/Instruction Librarian)

<p>(4) Monday 19, 2015</p> <p>6:30 PM -9:00 PM</p>	<p>Nuclear disarmament Verification,</p> <ul style="list-style-type: none">- Non Proliferation Treaty (NPT) and Weapons Mass Destruction ,- International Atomic Energy Agency (IAEA),- Comprehensive Nuclear Test Ban Treaty Organization (CTBTO),- United Nations (UN),- NGOs	<p><u>Presentation is expected to include:</u></p> <ul style="list-style-type: none">-An outline.-An introduction-Definitions of concepts used/ presented.-Applying case studies by using 1) two articles from required readings, 2) two articles from general readings & 3) open sources.- Kindly add interactive videos or pictures.-Conclusion as well as references/ footnotes.- Duration of the presentation is 45 mins, using 12- 15 slides	<p>Check required readings and general readings</p>
<p>(5) Tuesday 20, 2015</p> <p>6:30 PM -9:00 PM</p>	<p>Nuclear disarmament Verification,</p> <ul style="list-style-type: none">- Non Proliferation Treaty (NPT) and Weapons Mass Destruction ,- International Atomic Energy Agency (IAEA),	<p><u>Presentation is expected to include:</u></p> <ul style="list-style-type: none">-An outline.-An introduction	<p>Check required readings and general readings</p>

	<ul style="list-style-type: none"> - Comprehensive Nuclear Test Ban Treaty Organization (CTBTO), - United Nations (UN), - NGOs 	<p>-Definitions of concepts used/ presented.</p> <p>-Applying case studies by using</p> <ol style="list-style-type: none"> 1) two articles from required readings, 2) two articles from general readings & 3) open sources. <p>- Kindly add interactive videos or pictures.</p> <p>-Conclusion as well as references/ footnotes.</p> <p>- Duration of the presentation is 45 mins, using 12- 15 slides</p>	
<p>(6) Wednesday 21, 2015</p> <p>6:30 PM -9:00 PM</p>	<p>Nuclear disarmament Verification,</p> <ul style="list-style-type: none"> - Non Proliferation Treaty (NPT) and Weapons Mass Destruction , - International Atomic Energy Agency (IAEA), - Comprehensive Nuclear Test Ban Treaty Organization (CTBTO), - United Nations (UN), - NGOs 	<p><u>Presentation is expected to include:</u></p> <p>-An outline.</p> <p>-An introduction</p> <p>-Definitions of concepts used/ presented.</p> <p>-Applying case studies by using</p> <ol style="list-style-type: none"> 1) two articles from required readings, 2) two articles from general readings 	<p>Check required readings and general readings</p>

		& 3) open sources. - Kindly add interactive videos or pictures. -Conclusion as well as references/ footnotes. - Duration of the presentation is 45 mins, using 12- 15 slides	
Study Visit to Oslo (Jan 23- 30, 2015)- (36 hrs) Institute For Energy Technology (IFE)			
Session number	Topic	Assignments And exams	Readings (see detailed bibliography above)
(7) Friday 23, 2015	09:00-11:30 Briefing of hosts 11:30-12:15 Lunch 12:15-15:00 Briefing of hosts 15:40 Egyptian participants arrive to Oslo 16:15 Transport by minibus of Egyptian participants from airport to Savoy hotel	Title: Study visit to Oslo - Norway 23-30 January Place: Institute For Energy Technology (IFE)	Check required readings and general readings
(8) Saturday 24, 2015	12:30-13:30 Lunch 13:30-Dinner Briefing of inspectors	Title: Study visit to Oslo - Norway 23-30 January Place: Institute For Energy Technology (IFE)	Check required readings and general readings
(9) Sunday 25, 2015	<u>09:00-12:30</u> Briefing of inspectors <u>12:30-13:30</u> Lunch <u>13:30-16:00</u> Briefing of inspectors	Title: Study visit to Oslo - Norway 23-30 January Place: Institute	Check required readings and general readings

		For Energy Technology (IFE)	
(10) Monday 26, 2015	<p><u>7:45</u> Norwegian planners on site checking equipment, arrangements, last minutes preparations</p> <p><u>07:55-08:45</u> Transport by minibus of inspectors, arrival of inspectors to IFE</p> <p><u>8:15</u> Arrival of planners, host, and observers</p> <p><u>09:00-11:30</u> Day 1 of exercise begins. Initial presentations and negotiations</p> <p><u>11:30-12:30</u> Lunch</p> <p><u>12:30-16:20</u> Presentations and negotiations continue. End of day 1 of exercise</p> <p><u>16:30-17:20</u> Transport by minibus of inspectors to hotel</p>	<p>Title: Study visit to Oslo - Norway 23-30 January</p> <p>Place: Institute For Energy Technology (IFE)</p>	Check required readings and general readings
(11) Tuesday 27, 2015	<p><u>07:55-08:45</u> Transport by minibus of inspectors, arrival of inspectors to IFE</p> <p><u>8:30</u> Arrival of planners, host, and observers</p> <p><u>09:00-11:30</u> Day 2 of exercise begins.</p> <p><u>11:30-12:30</u> Lunch</p> <p><u>12:30-16:20</u> Day 2 of exercise continues. End of day 2 of exercise</p> <p><u>16:30-17:20</u> Transport by minibus of inspectors to hotel</p>	<p>Title: Study visit to Oslo - Norway 23-30 January</p> <p>Place: Institute For Energy Technology (IFE)</p>	Check required readings and general readings
(12) Wednesday 28, 2015	<p><u>07:45-08:45</u> Transport by minibus of inspectors, arrival of inspectors to IFE</p> <p><u>8:30</u> Arrival of planners, host, and observers</p> <p><u>09:00-11:30</u> Day 3 of exercise begins.</p>	<p>Title: Study visit to Oslo - Norway 23-30 January</p> <p>Place: Institute For Energy Technology (IFE)</p>	Check required readings and general readings

	<p><u>11:30-12:30</u> Lunch</p> <p><u>12:30-16:20</u> Day 3 of exercise continues. End of day 3 of exercise</p> <p><u>16:30-17:00</u> Transport by bus of all participants (insp, hosts, planners, observ) to Vikingegarden Maurenga</p> <p><u>17:15</u> coffee/tea, homemade bread with div. toppings</p> <p><u>18:00-20:00</u> Group activities outside (bring warm winter clothes, head lights)</p> <p><u>20:00-22:30</u> Official dinner</p> <p><u>22:30</u> Bus transfer of all participants to Oslo (to Savoy hotel via Kjeller)</p>		
<p>(13) Thursday 29, 2015</p>	<p><u>08:30-09:20</u> Transport by minibus of inspectors, arrival of inspectors to IFE</p> <p><u>9:15</u> Arrival of planners, host, and observers</p> <p><u>09:30-11:30</u> Summary of the exercise results, interviews, focus groups, etc</p> <p><u>11:30-12:30</u> Lunch</p> <p><u>12:30-15:20</u> Summary of the exercise results, interviews, focus groups, etc - continue</p> <p><u>15:30-16:20</u> Transport of inspectors to hotel</p>	<p>Due Final Report on study visit.</p> <p>- Kindly write 2-3 factual and analytical pages).</p> <p>- Please submit it via email to the professor and assistant.</p>	<p>Due Final Report on study visit.</p> <p>- Kindly write 5 pages (2-3 factual as wells as 2 analytical).</p> <p>- Please submit it via email to the professor and assistant.</p>
<p>(14) Friday 30, 2015</p>	<p><u>06:00-07:00</u> Transport by minibus of Egyptian participants to airport</p> <p><u>9:15</u> Egyptian participants depart from Oslo</p>		

General Readings

- Aboul-Enein, Sameh, Lawrence Freedman, Frank Miller, Jonathan Schell, Brad Roberts, Harald Müller, Bruno Tertrais, Achilles Zaluar, Scott Sagan, Takaya Suto, Hirofumi Tosaki, James Doyle, Patricia Lewis, Ian Hore-Lacy, Pan Zhenqiang, V.R. Raghavan, Ernesto Zedillo, and Zia Mian. *Abolishing Nuclear Weapons: A Debate*. Washington, DC: Carnegie Endowment for International Peace, 2009.
Web<http://carnegieendowment.org/files/abolishing_nuclear_weapons_debate.pdf>
- Aboul Enein, Sameh, *Challenges for the Nonproliferation Regime and the Middle East, Disarmament Diplomacy*, No. 90, Spring 2009
- Aboul Enein, Sameh, *NPT 2010: The Beginning of a New Constructive Cycle*, *Arms Control Today*, November 2010
- Aboul Enein, Sameh. "A Middle East Zone Free of Nuclear and Other Weapons of Mass Destruction: Next Steps." *Academic Council on the United Nations System (ACUNS)* Issue 4 (1 Dec. 2013): 12. *Informational Memorandum No. 4. 2013*. ACUNS. Web. <<http://acuns.org/informational-memorandum-no-4-2013/>>.
- Aboul Enein, Sameh. "The Future of Nuclear Disarmament and Non-Proliferation: The Case of the Middle East Zone Free of Nuclear Weapons." *European University Institute Robert Schuman Centre for Advanced Studies Global Governance Programme* (2013): 1-15.
- Aboul Enein, Sameh. "A Zone Free of Nuclear Weapons and Other WMD in the Middle East: Addressing Challenges to Disarmament and Non-Proliferation." *Geneva Centre for Security Policy (GCSP)* (2013): 1-5.
- Aboul Enein, Sameh and Gopalaswamy, Bharath. *Missile Regime, Verification, Test Bans and Free Zones*, *Disarmament Forum* No. 4, 2009, UNIDIR, Geneva.
- Aboul Enein, Sameh and ELBahtimy, Hassan, *Towards a verified nuclear weapon free zone in the Middle East*, *VERTIC Brief*, April 2010.
- Aboul Enein, Sameh (2011), "NPT 2010-2015: The way Forward". Carnegie Endowment for International Peace.
- Aboul Enein, Sameh (2010), *A real opportunity for a Nuclear-Weapons-Free Zone in the Middle East*
- Aboul Enein, Sameh, "The 2010 NPT Review and the Middle East: Challenges and Opportunities". *Palestine-Israel Journal*.
- Fahmy, Nabil (2001). *Prospects for arms control and proliferation in the Middle East*. *The Nonproliferation Review* Viewpoint03.
- Fahmy, Nabil (2006). *An assessment of international nonproliferation efforts after 60 years*. *Nonproliferation Review*, Vol. 13, No 1.
- Fahmy, Nabil (2011). *Mindful of the Middle East*, *The Nonproliferation Review*, 18:1, 165-181
- George Bunn, "The Nuclear Nonproliferation Regime and its History," chapter 3 in George Bunn and Christopher F. Chyba, editors, *U.S. Nuclear Weapons Policy*. (Brookings, 2006).
- George P. Shultz, William J. Perry, Henry Kissinger, and Sam Nunn. "A World Without Nuclear Weapons," *Wall Street Journal* (January 4, 2007)
- Kubbig, Bernd and Sven Eric Fikenscher. *Arms control and missile proliferation in the Middle East*. New York: New York, 2012.
<<http://lib.aucegypt.edu/record=b1953047>>.
- Russell, Richard L. *Proliferation of Nuclear Weapons in the Middle East*. New York: Routledge, 2005. <<http://lib.aucegypt.edu/record=b1393682>>.

- **Presentations description (25%)**

All students should research and explain the role of inspectors in their presentation in relation to your case studies as well as relevant int'l organizations.

Presentation is expected to include:

-An outline.

-An introduction

-Definitions of concepts used/ presented.

-Applying case studies by using 1) two articles from required readings, 2) two articles from general readings & 3) open sources.

- Kindly add interactive videos or pictures.

-Conclusion as well as references/ footnotes.

- Duration of the presentation is 45 mins, using 12- 15 slide

- **Requested assignments during the study visit to Oslo:**

Assignment 1 (Inspectors Team Scenario Briefing (20%))

Please be informed that assignment 1 is **due after the second day of the briefing session in Oslo (Sunday 25th)**. You are kindly requested to write 2-3 analytical pages and double spaced in relation to your role of inspector and please send your soft copy via email, copying the professor and assistant. Many thanks!

Assignment 2 (Inspectors Team Strategy & Working Plan (20%))

Please be informed that assignment 2 is **due after the second day of the simulation exercise (Tuesday 27th)**. You are kindly requested to write 2-3 analytical pages and double spaced, summarizing the three days of the simulation and please send your soft copy via email, copying the professor and assistant. Many thanks!