

NATO Advanced Research Workshop

The role of independent scientists in assessing the threat of WMD 13-16 November 2008, Zagreb, Croatia

Agenda

Thursday, 13 November

All day

18.30 – 21.00

Arrival of participants

Session 1. Welcoming Reception

- Ivo Slaus, *Emeritus Professor, Rudjer Boskovic Institute, Zagreb, Croatia and former Member of Parliament*
- John Finney, *Professor, Department of Physics and Astronomy, University College London*
- Mladen Stanicic, *Director, Institute for International Relations (IMO), Zagreb, Croatia*

Friday, 14 November

9.00 – 10.30

Session 2: Scientists and Policy Formation on CBRN Weapons: Current Structures

Chairs: Ivo Slaus and Brian Heap

2. a. Paper: Global Security, Weapons of Mass Destruction and the Responsibility of Scientists

- Ivo Slaus, *Emeritus Professor, Rudjer Boskovic Institute, Zagreb, Croatia and former Member of Parliament*

2.b. Paper: The Role of Independent Scientific Input in NATO

- Sir Brian Heap, *Vice-President, European Academies Science Advisory Council, The Royal Society, London, Former UK Representative NATO Science for Peace*

2.c. Paper: NATO in Post Cold War Era: Shift of Strategies

- Noha Bakr, *Assistant Professor, The American University in Cairo*

10.30 – 11.00

Coffee

11.00 – 13.00

Session 3: How Threat Assessment Affects Policy

Chairs: Jo Husbands and Zvonimir Mahecic

3.a. Paper: The Paradox of Priority: The Impact of Divergent Threat Assessments in the Mediterranean

- Mohamed Kadry Said, *Maj.Gen. (ret.), Military and Technology Advisor, Head of Military Studies Unit, Al- Ahram Center for Political and Strategic Studies, Cairo*

3.b. Paper: The Role of Scientists in Verification: The Example of Iraq and Lessons Learned

- Gabrielle Kraatz-Wadsack, *Chief, Weapons of Mass Destruction Branch, Office for Disarmament Affairs, former chief inspector for the United Nations Special Commission on Iraq*

3.c. Paper: Assessment of the Iranian Nuclear Threat and the Impact on Regional Stability



*This workshop
is supported by:*

The NATO Science for Peace
and Security Programme

- Avner Cohen, *Senior Fellow, USIP, former Senior Research Fellow, Center for International and Security Studies at Maryland*

3.d. Paper: Beyond a Threat Assessment: Evaluating the Effectiveness of Defenses and Other Countermeasures, and Counter-Countermeasures on the Part of the Offense

- Richard Garwin (video/audio presentation), *IBM Fellow Emeritus, scientific advisor to the US government in many capacities*

13.00 – 14.00

Lunch

14.00 – 15.45

Session 4: Chemical Weapons Panel Discussion

Chairs: John Finney and Kirill Babievsky

4a. Paper: WMD Threat Assessment in the Chemical Industry: Plant Site Level

- Don Clagett, *US Department of State, former OPCW*

4.b. Paper: Why it is Important to Explore the Role of Independent Scientists in CBRN Threat Assessment at this Time: A Case Study of Non-Lethal Chemical Weapons

- Michael Crowley (confirmed), *Project Coordinator, Bradford Non-Lethal Weapons Research Project, Bradford University, presenting paper co-authored with Malcolm Dando*

4c. Paper: Chemical Weapons Convention and Role of Engineers and Scientists

- Jiri Matousek, *Former chairman, OPCW scientific advisory panel, Prague*

4d. Paper: Scientists and Chemical Weapons Policies

- Robert Lovsin, *PhD candidate, University of Sussex, will present a paper by Prof. Julian Perry Robinson*

15.45 – 16.15

Coffee

16.15 – 17.45

Session 5: Biological Weapons

Chairs: Kruno Pisk and John Finney

5.a. Paper: Dual Use Aspects and Challenges for Threat Assessment

- Ben Koppelman, *presenting paper by Geoffrey Smith, Royal Society*

5.b. Paper: “Responsible Stewardship” of Advances in Life Sciences Research: Lessons from the Fink and Lemon-Relman Reports

- Jo Husbands, *Senior Project Director, the National Academy of Sciences, Washington, DC*

5.c. Paper: Best Practices: Follow on the Fink report – Dual use biotechnological research oversight – an Israeli perspective

- David Friedman, *Col (ret.), Institute for National Security Studies, Tel Aviv, former Special Assistant for Bio/Chem Defense in the office of the Assistant Minister of Defense*



*This workshop
is supported by:*

**The NATO Science for Peace
and Security Programme**

18.30 – 20.30 **Dinner**

Saturday, 15 November

9.00 – 10.30

Session 6: Nuclear Threats

Chairs: Götz Neuneck and Vladimir Knapp

6.a. Paper: Uranium Enrichment: Guns or Butter?

- Houston G. Wood, III, *Professor of Mechanical and Aerospace Engineering, former manager of the Centrifuge Physics Department at the Oak Ridge Gaseous Diffusion Plant*

6.b. Paper: Best Practices: College de la prévention des risques technologiques

- Venance Journée, *Researcher, National Scientific Research Council (CNRS), Paris*

6.c. Paper: Threat Evaluation of Ukrainian Nuclear Energy Infrastructures (to be confirmed)

- Borys Zlobenko, *senior researcher, Institute of Environmental Geochemistry of the National Academy of Sciences and Ministry of Emergencies of Ukraine*

10.30 – 11.00

Coffee

11.00 – 12.00

Session 7: Ballistic Missiles

Chairs: Mohamed Kadry Said and Mile Aleksoski

7.a. Paper: Missile threat assessment

- Geoffrey Forden, *Research Associate, MIT Program in Science, Technology, and Society*

7.b. Paper: Independent Scientists and Ballistic Missile Defence

- Götz Neuneck, *Professor at the University of Hamburg and Head of the "Interdisciplinary Research Group Disarmament, Arms Control and New Technologies" at the Institute for Peace Research and Security Policy, Hamburg*

12.00 – 13.00

Lunch

13.00 – 14.30

Session 8. Panel Discussion: NATO's Role in South-Eastern Europe in Light of WMD Threat Assessments

Chair: Mladen Stanicic

- Zvonimir Mahecic (Col-ret.), "Cost-Benefit Analysis of Croatia's Accession Process to NATO in the Light of WMD Threat Assessment," *Security and Defence Analyst, IMO, former assistant head, military cabinet, office of the President*
- Srdjan Gligorijevic, "A View from Serbia," *Founder and Program Director, International and Security Affairs Centre*
- Mile Aleksoski (Lt. Col-ret), "A View from Macedonia," *Secretary-General, Balkan Security Forum*

14.30-15.00

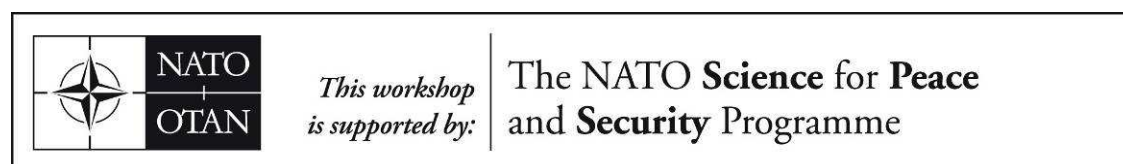
Coffee

15.00 – 16.30

Session 9. The Way Forward: Breaking the Threat-Counter Threat Cycle

Chairs: Mladen Stanicic and Sandra Butcher

10.a. Paper: Confidence Building Measures and the Role of Independent Scientists



- Colonel Tomislav Vibovec, *Chief of Staff and Deputy Director, Regional Arms Control Verification and Implementation Assistance Centre, Bestovje, Croatia*

10.b. Paper: Best Practices: Advising the CWC and BTWC about Trends in Science & Technology

- Ralf Trapp, *independent consultant on chemical and biological weapons disarmament, formerly of the Technical Secretariat of the OPCW*

10.c. Paper: Including Civil Society in Confidence Building: Protecting Whistleblowers and Societal Verification

- Annegret Falter, *Federation of German Scientists*

16.30 – 17.30

Session 11: Conclusion

John Finney, Ivo Slaus, Mladen Stanicic

Directors' Roundtable: Key Points from the Discussions & Recommendations

18.00 – 21.00

Dinner

Sunday, 16 November

All day

Departures

Background Papers:

- Kirill Babievskiy and Daniil Rodionov: How Deadly Could be Non-Lethal Weapons?
- Jens Erik Fenstad (unable to attend): NATO and Science
- Götz Neuneck et al: Missile Defence and European Security
- Götz Neuneck and Jurgen Altmann: US Missile Defense Plans in Europe
- Götz Neuneck: Technical and Political Realities of Ballistic Missile Defense in Europe
- Houston Wood et al: The Gas Centrifuge and Nuclear Weapons



*This workshop
is supported by:*

**The NATO Science for Peace
and Security Programme**