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The Alva Myrdal Centre
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2023 Armament and Disarmament Summer School: Final programme

Sunday, 20 August	Venue: Stockholm and Solna		
14:30-15:20	Boat tour around Stockholm (Södra Blasieholmshamnen 11, Stockholm) <i>Please arrive at 14:15</i>		
18:00–20:00	Introduction and Welcome Dinner (<i>Restaurang Mama Gió, Råsundavägen 1, Solna</i>) Keynote address by Bob Kelley		
Monday, 21 August	Venue: SIPRI, Signalistgatan 9, Solna Conference Room		
09:30–09:45	Group photo and welcome to SIPRI (with Dan Smith)		
09:45–11:00	Inspirational session	Matthew Bunn, Harvard Kennedy School, moderated by Sibylle Bauer, SIPRI	<i>The inspirational session features Dr. Bunn's reflections on his work and career, the current issues in the field, and the importance of peace and disarmament education.</i>
11:00–11:15	Coffee break		
11:15–12:30	Lecture 1: WMD Overview	Wilfred Wan, SIPRI	<i>This session considers the state of play of the global governance of weapons of mass destruction. It highlights contemporary challenges and trends, including as a function of broad structural changes since the end of the Cold War.</i>
12:30–13:45	Lunch – K-Märkt (<i>Gustav III:s Boulevard 32, Solna</i>)		



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13:45–15:00	Lecture 2: Export Control	Sibylle Bauer, SIPRI	<i>This lecture will explore multiple dimensions of export control for arms and for dual-use items. It will discuss key concepts, rationales, and governance frameworks. It also looks at trends and challenges, such as those arising from emerging technologies and geopolitics.</i>
15:00–15:15	Coffee break		
15:15–16:30	Lecture 3: Gender Perspectives on Armament and Disarmament	Erik Melander, AMC	<i>Why is a gender perspective relevant for understanding armament and disarmament? This lecture gives an overview of some of the extensive research on this and discusses policy relevance.</i>
19:30	Dinner – <i>Hermans (Fjällgatan 23B, Stockholm)</i>		

Tuesday, 22 August	Venue: SIPRI, Signalistgatan 9, Solna Conference Room		
09:00–10:15	Lecture 4: Military Spending	Lucie Béraud-Sudreau and Nan Tian, SIPRI	<i>This lecture will first introduce the scope and goals of SIPRI's Military Expenditure project. This includes discussing aspects ranging from the data collection process to data analysis. Second, the lecture will discuss the uses of the data, bringing examples from policy circles and scholarly work.</i>
10:15–10:45	Coffee break		
10:45–12:00	Lecture 5: Artificial Intelligence	Laura Bruun, SIPRI	<i>Drawing on ongoing multilateral discussions in the UN, this lecture will discuss autonomous weapons systems (AWS). It will explore how such systems, which pose novel questions about the human role in decisions to use force, should – or should not – be regulated.</i>
12:00–13:30	Lunch – <i>K-Märkt (Gustav III:s Boulevard 32, Solna)</i>		



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13:30–14:45	Lecture 6: Arms Transfers	Pieter Wezeman and Mathew George, SIPRI	<i>This seminar will discuss the SIPRI Arms Transfer Database as a tool to identify trends and patterns in international arms transfers. By analyzing data on arms transfers, it will examine several case studies to investigate international arms transfers data in relation to international security and national foreign and defence policies and inter-state relations.</i>
14:45–15:15	Coffee break		
15:15–16:30	Training session 1: Building your profile in a rapidly changing media landscape	Stephanie Blenckner, SIPRI	<i>Research in a timely and topical area is both challenging and rewarding. Your topic is of great interest and in high demand. At the same time, with the public eyes on you, mistakes can be unexpectedly harmful. This session will go through how traditional media and social media work and how you navigate them to your advantage.</i>
19:00	Dinner – Ölstugan Tullen (<i>Sveavägen 64, Stockholm</i>)		

Wednesday, 23 August	Venue: Lewinsalen, Östra Ågatan 19, Uppsala University		
09:30-11:00	Training session 2: Writing for policy	Caspar Trimmer, SIPRI	<i>You want your research to have a positive influence on policy. But communicating research to policymakers comes with its own challenges. In this session, this session will explore some of the keys to success, with a focus on short-form writing.</i>



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11:00-11:15	Coffee break		
11:15-12:30	Lecture 7: Outer Space	Nivedita Raju, SIPRI	<i>As the military use of outer space continues to grow, specific actions could turn space into a domain for conflict. This lecture will first provide an overview of the military uses of outer space and discuss current trends in space weaponization. It will then introduce space security governance under international law and ongoing multilateral initiatives to address threats in outer space.</i>
12:30-13:45	Lunch – Klang Market (Gamla torget 5)		
13:45-15:00	Seminar: Nuclear Deterrence and Arms Control	Polina Sinovets, OdCNP	<i>This lecture will explore main concepts of nuclear deterrence in its classical sense and also shed the light on deterrence peculiarities and development in the context of the Russia's war on Ukraine.</i>
15:00-15:15	Coffee break		
15:15-16:30	Lecture 8: Nuclear Forces and OSINT	Matt Korda, FAS and SIPRI	<i>Significant improvements to commercial satellite technology now allow independent researchers to analyze military developments nearly in real-time. This has completely revolutionized the practice of collecting open-source intelligence (OSINT), particularly as it relates to WMD policy. This interactive session will therefore explore some key OSINT practices and provide participants with the basic tools for conducting their</i>



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			<i>own investigations. [Note: participants are asked to download Google Earth Pro in advance of this session, and if time allows, familiarize themselves with the programme's basic functionality.]</i>
19:00	Dinner - <i>Tegetbaren (Råsundavägen 31, Solna)</i>		

Thursday, 24 August			
Venue: Lewinsalen, Östra Ågatan 19, Uppsala University			
09:30–10:00	Presentation: Ethical Considerations on Nuclear Weapons	Peter Wallensteen, AMC	<i>The first nuclear explosions in 1945 also led to questions on the role of scientists in nuclear development. These considerations resulted in the formation of the Pugwash movement in 1957 and contributed to a discussion on the societal responsibility of sciences in general. This lecture gives a background using the Uppsala Code of Ethics for Researchers as an example.</i>
10:00–11:00	Presentation: Uppsala Conflict Data Program	Magnus Öberg, AMC	<i>This lecture will describe the Uppsala Conflict Data Program (UCDP) and the patterns and trends in armed conflict since 1946.</i>
11:00-11:15	Coffee break		
11:15-12:30	Lecture: Negotiating Nuclear Disarmament	Isak Svensson, AMC	<i>This lecture will provide the basics for understanding the role and outcomes of international negotiations, and in particular how negotiations aimed at managing the threats from nuclear weapons program have been conducted. The key purpose is to describe how nuclear negotiations have been designed, identify some of the key conditions under which negotiations are</i>



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			<i>successful and discuss the key challenges when it comes to multilateral negotiations.</i>
12:30-13:45	Lunch – <i>Klang Market (Gamla torget 5)</i>		
13:45-15:00	Lecture: Nuclear weapons: principles and verification	Débora Montana Trombetta, AMC	<i>This lecture addresses basic concepts of nuclear weapons principles: physics aspects of special nuclear materials and their use in different types of weapons, the origin of special nuclear materials, nuclear fuel cycle, and pathways for weapons proliferation; and verification: technical measures and procedures to verify special nuclear material misuse, nuclear disarmament, and nuclear weapon tests.</i>
15:00-15:15	Coffee break		
15:15-16:15	Lecture: International Measures for Compliance with Nuclear Disarmament Regimes	Peter Wallensteen, AMC	<i>This lecture takes up the possibilities for outsiders to affect nuclear weapons decisions of particular countries. Among the measures for compliance, the use of sanctions takes a prominent place. Peter Wallensteen will discuss the role of such sanctions, their historical record and their utility today.</i>
16:15-17:45	Peace Walk (Guided walk through Uppsala’s landmarks related to peacebuilding)	Peter Wallensteen, AMC	<i>The City of Uppsala declared itself a City of Peace in 2014, commemorating Sweden’s 200 years without war. This is a walk in a leisure pace through some of the peace-related memorials that exist in the center of Uppsala.</i>
18:00	Dinner – <i>Gamla Stadshotellet (Heart & Bones), (Drottninggatan 9, Uppsala)</i>		

Friday, 25 August	Venue: Swedish Ministry for Foreign Affairs and SIPRI
10:00–12:00	Visit to the Swedish Ministry for Foreign Affairs, Disarmament and Non-proliferation Department



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12:00–13:00	Lunch – <i>Bistro Rolf de Maré (Drottninggatan 15, Stockholm)</i>
14:00–16:00	Concluding session; certificate ceremony with Stefan Löfven
16:00–18:00	Farewell mingle at SIPRI with refreshments



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Speakers

Dr Sibylle Bauer is Director of Studies, Armament and Disarmament at SIPRI, with responsibility for SIPRI's work on arms control, disarmament and non-proliferation for nuclear, biological and chemical weapons; dual-use and arms trade control; emerging technologies; and arms production, arms transfer and military expenditure. She is also the current Chair of the EU Nonproliferation and Disarmament Consortium. Previously, she managed SIPRI's Dual-use and Arms Trade Control Programme. In that capacity, she designed and implemented capacity-building activities in Europe and South East Asia. Dr Bauer joined SIPRI in 2003.

Dr Lucie Béraud-Sudreau joined SIPRI in February 2020 as the Director of the Military Expenditure and Arms Production Programme. Her research interests focus on European and Asian arms trade, military spending and arms industry. Lucie was previously a Research Fellow for Defence Economics and Procurements at the International Institute for Strategic Studies (IISS) and an analyst at the French ministry of Armed Forces.

Stephanie Blenckner joined SIPRI in January 2009. In her position as Communications Director, she is responsible for the development and implementation of communications strategies, media events, public events, the SIPRI website, the monthly newsletter and image-related issues. Before coming to SIPRI Stephanie led the communications team at the Stockholm International Water Institute, another Swedish-based think tank involved in international water and development issues. She has also worked for several press agencies and publishers in Sweden and Germany.

Laura Bruun is a Researcher in the Governance of Artificial Intelligence Programme at SIPRI. Her focus is on how emerging military technologies, notably autonomous weapon systems (AWS) and military Artificial Intelligence (AI), affect compliance with—and interpretation of—international humanitarian law (IHL). Laura has a background in Middle Eastern Studies (University of Copenhagen) and International Security and Law (University of Southern Denmark). Before joining SIPRI, Laura worked at Airwars in London, where she monitored and assessed civilian casualty reports from US and Russian airstrikes in Syria and Iraq.

Dr Matthew Bunn is the James R. Schlesinger Professor of the Practice of Energy, National Security, and Foreign Policy at the Harvard Kennedy School. His research interests include nuclear theft and terrorism; nuclear arms control and strategic stability; nuclear proliferation and measures to control it; the future of nuclear energy and its fuel cycle; and innovation in energy technologies. Before coming to Harvard, Bunn served as an adviser to the White House Office of Science and Technology Policy, as a study director at the National Academy of



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Sciences, and as editor of Arms Control Today. He is the author or co-author of more than 25 books or major technical reports (most recently Revitalizing Nuclear Security in an Era of Uncertainty), and over 150 articles in publications ranging from Science to The Washington Post.

Dr Mathew George joined SIPRI in May 2023 as the Director of SIPRI's Arms Transfers Programme. His research interests focus on global arms trade, American and Oceania military inventories and geopolitics, coastal security, and comprehensive security. Mathew was previously the Practice Head of Aerospace, Defense and Security at GlobalData and before that a part of Jane's Military Inventories and Naval Platforms teams.

Robert Kelley is a veteran of over 35 years in the US Department of Energy nuclear weapons complex, most recently at Los Alamos. He worked in research and engineering before turning to information analysis in the 1980s. He managed the centrifuge and plutonium metallurgy programs at Lawrence Livermore National Laboratory and later was Director of the Department of Energy Remote Sensing Laboratory, the premier US nuclear emergency response organization. He was also seconded by the USDOE to the IAEA where he served twice as a Director of the nuclear inspections in Iraq in 1992 and again in 2001. Kelley is currently based in Vienna. He has carried out professional travel to more than 20 countries.

Matt Korda is an Associate Researcher with the SIPRI Weapons of Mass Destruction Programme as well as Senior Research Associate and Project Manager with the Nuclear Information Project at the Federation of American Scientists (FAS). He co-authors the Nuclear Notebook with Hans Kristensen and has contributed chapters on world nuclear forces to the SIPRI Yearbook. Previously, he worked for the Arms Control, Disarmament, and WMD Non-Proliferation Centre at NATO HQ in Brussels. Matt received his MA in International Peace & Security from the Department of War Studies at King's College London, and his research interests and recent publications focus on nuclear deterrence and disarmament, progressive foreign policy, and the nexus between nuclear weapons, climate change, and injustice.

Stefan Löfven is Chair of the SIPRI Governing Board as of June 2022. Löfven was the Prime Minister of Sweden from October 2014 to November 2021 and leader of the Social Democratic Party from 2012 to 2021. His background includes extensive experience from various domestic and international assignments. In 2022, he was appointed by the United Nations Secretary-General to co-lead a High-level Advisory Board on Effective Multilateralism in preparation for the Summit of the Future. He was previously the International Secretary of the Swedish trade union IF Metall and, subsequently, its Chair (2006–2012). He was also a board member of the Swedish Trade Union Confederation (2006–2012), a board member of the Royal Institute of Technology in Stockholm (2010–2012), Deputy Chair of the Swedish Trade Council (2004–2012) and a board member of the Olof Palme International Centre (2002–2006).



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Dr Erik Melander is a professor at the Department of Peace and Conflict Research and the Director of the Alva Myrdal Centre for Nuclear Disarmament at Uppsala University. His previous positions include Director of the Uppsala Conflict Data Program (UCDP); core faculty member of the Rotary Peace and Conflict Studies Program, Chulalongkorn University, Thailand; Adjunct Research Professor at the Joan B. Kroc Institute for International Peace Studies, Notre Dame University, USA; and Visiting Honorary Research Associate at the University of Natal, South Africa. Erik Melander's research interests include the causes and dynamics of armed conflict, peace processes, as well as gender. He has experience from research fieldwork in Armenia, Azerbaijan, Bosnia-Herzegovina, Croatia, Kenya, Russia, South Africa, Thailand and the Yugoslav Federation. In 1996, he served as 2nd lieutenant with the Swedish peacekeeping forces in Bosnia-Herzegovina.

Déborá M. Trombetta is a researcher at Uppsala University under the Applied Nuclear Physics Department and the Swedish Alva Myrdal Centre for Nuclear Disarmament. Her research cross-cut the areas of Nuclear Safeguards, Nuclear Security and Non-proliferation.

Dr Magnus Öberg received his Ph.D. in Peace and Conflict Research in 2003. Öberg is currently the Director of the Uppsala Conflict Data Program (UCDP), and Senior Lecturer at the Department of Peace and Conflict Research, Uppsala University, where he served as Head of Department 2012-2017. Dr Magnus Öberg's main research interests are the causes of war, escalation processes, the human impact of war and conflict data.

Nivedita Raju is a Researcher in SIPRI's Weapons of Mass Destruction Programme. She conducts research on space security and gender issues. She volunteers as Director of Legal Affairs at the non-profit Space Court Foundation. Previously, she was a mentor in the UN Space4Women program, a Research Fellow at Open Lunar Foundation, and a Research Assistant for the Manual on International Law Applicable to Military Uses of Outer Space (MILAMOS). Nivedita was additionally an advisor for Schools of Equality, a non-profit that conducts gender-sensitization training in Indian schools.

Dr Polina Sinovets is the Head of Odessa Center for Nonproliferation (OdCNP), Associate Professor, Ph.D in Political Science, Department of International Relations, Political Science and Sociology, Odessa I.I. Mechnikov National University, currently based at the University of Malta. Also Dr. Sinovets holds the position of the Affiliate Professor at the University of Malta. Previously she worked as senior research associate at Ukraine's National Institute for Strategic Studies, had a fellowship at the NATO Defense College in Rome (2015) and worked as Fulbright researcher at James Martin Center for Nonproliferation Studies. Dr. Sinovets is an expert in nuclear weapons policy, deterrence and nonproliferation.

Dan Smith is the Director of the Stockholm International Peace Research Institute (SIPRI). He has researched and written on security, conflict and peace for four decades. He served four years in the UN Peacebuilding Fund Advisory Group, two as Chair (2010–2011). He was part-time



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Professor of Peace and Conflict at the University of Manchester from 2014 to 2017. Before taking up his post at SIPRI, he was Secretary General of the London-based peacebuilding NGO, International Alert (2003–2015) and Director of the International Peace Research Institute, Oslo (1993–2001). His most recent book is the 10th edition of *The State of the World Atlas* (2020).

Dr Isak Svensson is Professor at the Department of Peace and Conflict Research, Uppsala University, where he teaches and does research on various aspects of conflict resolution. His research focuses on international mediation in civil wars, religious dimensions of armed conflict, and dynamics of nonviolent civil resistance. His works appear in journal articles published in leading journals such as *International Studies Quarterly*, *Journal of Peace Research*, *Journal of Conflict Resolution*, *European Journal of International Relations*, *International Negotiation*, *Research and Politics*, as well as in book chapters with academic publishers including Cambridge University Press and Oxford University Press. Svensson has been the Director of Research, The National Centre for Peace and Conflict Studies (NCPCS), University of Otago, New Zealand, (2010-2012), and serves as member of the Editorial Committee for *Journal of Peace Research* and of the Editorial Board of *Politics and Religion*. Isak Svensson has served as the at-large Representative in the Governing Council, for International Studies Association (ISA) in 2015-2016. He is a working-group leader of the international working group on international negotiations at the Alva Myrdal Centre for Nuclear Disarmament at Uppsala University.

Dr Nan Tian is a Senior Researcher with the SIPRI Military Expenditure and Arms Production Programme, where he is responsible for monitoring and managing the SIPRI Military Expenditure Database. His research interests focus on the causes and impact of military expenditure and civil war. His doctoral thesis is titled 'Military Spending, Conflict and Development' and explores the relationship between military spending, civil conflict and economic development. He previously worked at the World-Wide Fund for Nature (WWF) as an economist on climate change and was a lecturer at the University of Cape Town, South Africa.

Caspar Trimmer joined SIPRI in September 2020. He is responsible for SIPRI's timely and effective engagement with global debate through expert commentary and other online written materials. He plays an integral role in preparing communications for the Environment of Peace initiative. Before coming to SIPRI Caspar was Science Writer and Editor at Stockholm Environment Institute between 2013 and 2020. Prior to that, he worked as an editor at SIPRI and as a writer, editor and researcher for organizations including Unicef, UNDP, Save the Children, FAO and the Regional Working Group on Child Labour, based in Thailand and China.

Dr Peter Wallensteen is Senior Professor of Peace and Conflict Research at Uppsala University and Richard G. Starmann Sr. Research Professor Emeritus of Peace Studies at the Kroc Institute, University of Notre Dame, USA. He initiated and directed the Uppsala Conflict Data Program (UCDP), 1978-2015 and was the head of the Department of Peace and Conflict Research, 1972-1999. He was the first holder of the Dag Hammarskjöld Chair at Uppsala University, 1985-2012, and of the Richard G. Starmann Chair at University of Notre Dame, 2006-2018.



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Since 2021 he is Deputy Chair of the Alva Myrdal Centre for Nuclear Disarmament, Uppsala University and leads its working group on sanctions for prevention of nuclear proliferation. The volume Peter Wallensteen: A Pioneer in Making Peace Researchable (Springer 2021) explains his involvement in peace research, and presents ten of the major research fields he has contributed to. One deals with experiences of peace agreement and his Understanding Conflict Resolution is now in its 5th edition (2019, with editions in Arabic and Korean). Another major field has been the use of sanctions for different purposes, including ending wars and preventing the spread of nuclear weapons. He is presently editing a book on Alva Myrdal's contributions to nuclear test bans and non-proliferation (with Armend Bekaj).

Dr Wilfred Wan is the Director of SIPRI's Weapons of Mass Destruction Programme. His recent research focuses on nuclear weapon risk reduction, nuclear disarmament verification, and other issues related to arms control and disarmament. Previously he has worked at the United Nations Institute for Disarmament Research (Geneva, Switzerland), the United Nations University Centre for Policy Research (Tokyo, Japan), Hitotsubashi University (Tokyo, Japan), and Harvard Kennedy School's Belfer Center for Science and International Affairs (Boston, USA).

Pieter D. Wezeman is a Senior Researcher with the SIPRI Arms Transfers Programme. Within his overall objectives of contributing to the understanding of the effect armament dynamics have on peace and conflict and supporting arms control and disarmament efforts, his main areas of expertise include the global production and proliferation of arms and other military technology and trends and patterns in military expenditure. Currently his regional focus is mainly on the Middle East, the USA and Northern Europe. Multilateral arms embargoes and international transparency in armaments are amongst the key thematic issues he works on. Pieter started at SIPRI in 1994, worked in 2003–2006 as a Senior Analyst at the Dutch Ministry of Defence on issues related to the proliferation of conventional and nuclear weapons, and returned to SIPRI in 2006. In 2017 he was the Technical Expert for the Group of Governmental Experts that reviewed the UN Report on Military Expenditure.