Introducing the Scotland Model Arctic Council

24th Arctic Science Summit Week
University of Vienna | 21 February 2023
SCOTMAC is newest Polar Aspect MAC programme for university students

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1. An introduction to Polar Aspect Model Arctic Councils

2. The Scotland Model Arctic Council programme

3. Results from the Scotland Model Arctic Council

4. Looking ahead to Scotland Model Arctic Council 2
Polar Aspect MACs are experiential learning events at which pupils or students simulate real Arctic Council meetings.

NORMAC Senior Arctic Officials Meeting (Norwich, UK, March 2019)

Arctic Council Senior Arctic Officials Meeting (Rovaniemi, Finland, November 2018)

Source: Polar Aspect; Arctic Council (right image)
Since 2016, Polar Aspect have designed and run numerous MACs for schools and universities, in person and online:

- **NORMAC**
  - Norwich School, UK

- **MACBILBAO**
  - Colegio Ayalde, Spain

- **NORMAC**
  - Trent University, Canada
  & University of East Anglia, UK

- **GEOGMAC**
  - Trent University, Canada
  (online module-based MACs)

- **OMAC**
  - Online, worldwide
  (including delegate training)

- **TRYKOMAC**
  - Trent University, Canada
  & Yukon University, Canada

- **WYCOMAC**
  - Wycombe Abbey, UK

- **SCOTMAC**
  - Scottish-Arctic Network, UK
  & Trent University, Canada

Source: Polar Aspect
Polar Aspect MACs have raised awareness of Arctic amongst hundreds of youth from around world

Source: Polar Aspect
Research shows diplomatic simulations such as Polar Aspect MACs deliver valuable educational benefits

- Significant and better-retained learning
- Teaching tailored to variety of learning styles
- Improved independent learning skills
- Cooperative learning and co-creation of knowledge
- Improved communication and interpersonal skills
- Understanding of ambiguities and power dynamics of IR
- Appreciation of diverse or conflicting perspectives and beliefs
- Enjoyable, motivating and empowering learning

Source: Polar Aspect
Polar Aspect MACs designed to reflect unique features of Arctic Council

Consensus
- All decisions by consensus of Arctic States—substantive and procedural
- Participants challenged to find bridging solutions

Collaboration
- All declarations collaboratively drafted at conference
- Emphasis on persuasion, negotiation and joint problem-solving

Indigenous peoples
- Delegates play Indigenous peoples as well as Arctic States
- Learn what small but determined groups can achieve on global stage

Focus
- In-depth engagement with one of world’s most important regions
- Focus on sustainable development and environmental protection
Polar Aspect MAC agendas naturally revolve around issues of sustainability—both social and environmental.

- Vulnerable Indigenous cultures
- Limited access to public goods (e.g. education, health care)
- High cost of living
- Rapid climate change
- Poor community infrastructure
- High pollutant concentrations
- Dependence on natural resource extraction
- Fragile ecosystems
- Constrained physical and digital connectivity
- Narrowly-based local economies

Source: Polar Aspect
Rule of consensus requires Polar Aspect MAC delegates to grapple with tensions in sustainable development

‘It is the need for consensus (not just a majority) that makes it truly special’ – Teacher

Ottawa Declaration (1996)

‘Decisions of the Arctic Council are to be by consensus of the Members’ (Article 7)

Source: Polar Aspect; Stephanie McMillan/Cartoon Movement (left image); Arctic Council (right image and text)
Indigenous participation in Arctic Council foregrounds idea of Arctic as homeland

Polar Aspect MAC participants learn to value Arctic as place where lives and livelihoods matter

Source: Polar Aspect; Mats Nyvolde/Sermitsiaq (left image); Hamlet of Clyde River/Greenpeace (right image)
Polar Aspect MACs serve as general antidote to many one-dimensional or dubious ‘Arctic imaginaries’...

Fragile wilderness

Masculine crucible

Savage wasteland

Resource frontier

Terra nullius

Militarised zone

Scientific laboratory

Source: Polar Aspect; Florian Ledoux, Ranulph Fiennes, Nicholas Ray/Paramount Pictures, International Maritime Organisation, US Senator Dan Sullivan, Encyclopaedia Britannica, USGS (images clockwise from top left)

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...not least of Arctic merely as backdrop for climate ‘morality play’ in which we have starring role

Look carefully at this ‘photograph’!

Polar Aspect MACs challenge youth to see beyond slogan ‘what happens in the Arctic doesn’t stay in the Arctic’

Source: Polar Aspect; Coldimages/iStock.com (left image); Greenpeace (right image)
SCOTMAC intended to be annual, Scotland-based educational event for university students

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SCOTMAC is an educational initiative of Polar Aspect in collaboration with Scottish-Arctic Network.
SCOTMAC 1 led by Polar Aspect and ScAN/SAMS-UHI, with collaboration and funding from additional partners.

Nordic & Arctic Policy Unit, External Affairs Directorate

Scottish Government support through fund for Arctic Connections Policy Framework

Source: Polar Aspect; organisations shown (logos)
Diverse group of 25 undergraduate students—21 delegates and 4 Secretariat staff—participated in SCOTMAC 1

<table>
<thead>
<tr>
<th>Universities</th>
<th>Courses</th>
<th>Home countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aberystwyth Uni</td>
<td>Applied Bioscience</td>
<td>Germany</td>
</tr>
<tr>
<td>Glasgow Caledonian Uni</td>
<td>Architectural Technology</td>
<td>Ireland</td>
</tr>
<tr>
<td>Heriot-Watt Uni</td>
<td>Environmental Sci/Mgmt</td>
<td>Italy</td>
</tr>
<tr>
<td>Robert Gordon Uni</td>
<td>Geography</td>
<td>Spain</td>
</tr>
<tr>
<td>Uni of Aberdeen</td>
<td>Geology/Geoscience</td>
<td>Sweden</td>
</tr>
<tr>
<td>Uni of Barcelona</td>
<td>History</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>Uni of Cambridge</td>
<td>Language (French, Russian)</td>
<td>United States of America</td>
</tr>
<tr>
<td>Uni of Edinburgh</td>
<td>Law</td>
<td></td>
</tr>
<tr>
<td>Uni of Highlands &amp; Islands</td>
<td>Marine Biology/Science</td>
<td></td>
</tr>
<tr>
<td>Uni of St Andrews</td>
<td>Politics/Int’l Relations</td>
<td></td>
</tr>
<tr>
<td>Uni of Strathclyde</td>
<td>Sustainable Development</td>
<td></td>
</tr>
</tbody>
</table>

SCOTMAC 1 registration oversubscribed by more than 4x!

Source: Polar Aspect

Note: Does not include 8 students selected, but who withdrew just ahead of conference, nor 1 student who could not participate due to falling ill day before conference

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Learning began with conference preparations, culminating in pre-circulated discussion papers from each delegation.

SCOTMAC 1 focused on challenges associated with growth of Arctic shipping, and with intergenerational IK transfer.

Source: Polar Aspect; Arctic Portal (company and VLT logos)
SCOTMAC 1 took place against backdrop of war in Ukraine, and pause in Arctic Council diplomacy

- Strong ‘no to war’ statement clearly made at start of conference
- Special significance—youth demonstrating commitment to dialogue and capacity for concord
- No fictive Russian Chairmanship—all Polar Aspect MACs chaired neutrally by Polar Aspect
- No discussion of military matters (in keeping with real Arctic Council prohibition)
- Underscoring ‘A7’ agreement that Arctic Council remains of enduring value

Media coverage highlighted SCOTMAC 1 as youth diplomacy—’Seeking consensus in troubled times’

Source: Polar Aspect; Ice-Blog/Irene Quaile (citation in takeaway box)
SCOTMAC 1 began with ‘teaching morning’ involving Arctic, diplomatic and political experts

Ms Marie-Anne Coninsx  
Egmont Institute / Former EU Arctic Ambassador

Mr Neil Gray MSP  
Scottish Minister for Culture, Europe and International Development

Dr Sian Henley  
University of Edinburgh

Dr Sennan Mattar  
Glasgow Caledonian University

Dr Anthony Speca  
Polar Aspect, Trent University and University of East Anglia

Source: Polar Aspect; Marie-Anne Coninsx, Neil Gray, Sian Henley, Sennan Mattar (respective photos)
SCOTMAC 1 proceeded through full cycle of Arctic Council meetings, from Working Groups to Ministerial

**Polar Aspect MAC meeting structure**

- **Ministerial**
  - Arctic Council (every 2 years): Foreign Ministers and PP leaders approving declaration and directing future activities
  - Polar Aspect MAC: Decision on declaration, closing statements

- **Senior Arctic Officials (SAOs)**
  - Arctic Council (every 6 months): ‘Arctic ambassadors’ overseeing operations, shaping policy and negotiating declaration
  - Polar Aspect MAC: Negotiation and drafting of declaration

- **Working Groups**
  - Arctic Council: Technical experts carrying out research and projects
  - Polar Aspect MAC: ‘Pre-SAO’ initial exchange of views to define issues and identify areas of agreement and disagreement

Source: Polar Aspect
SCOTMAC 1 involved intense 3 days of model diplomacy and learning, ending in jointly agreed ‘Oban Declaration’
Daily ‘debriefings’ facilitated by experts helped SCOTMAC participants transform experience into learning

Experience $\rightarrow$ Reflect $\rightarrow$ Learn $\rightarrow$ Apply $\rightarrow$ Repeat

Source: Polar Aspect, loosely following Kolb (1984)
Two dinners, as well as informal gatherings, helped bond SCOTMAC 1 students and faculty together as colleagues.
Short surveys regularly used to evaluate educational impact of Polar Aspect MACs, including SCOTMAC 1

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SCOTMAC 1 students very pleased with programme and experience overall

Ratings of SCOTMAC 1 programme and experience
(Average rating out of 5; n=22)

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall experience</td>
<td>4.7</td>
</tr>
<tr>
<td>Conference materials</td>
<td>4.4</td>
</tr>
<tr>
<td>Organisation &amp; management</td>
<td>4.8</td>
</tr>
</tbody>
</table>

Source: Polar Aspect
SCOTMAC 1 students certain that they learned much from their experience

Self-reported knowledge before and after SCOTMAC 1
(Average rating out of 5; n=22)

Students didn’t start as, or suddenly become, Arctic experts!
Shows direction of and certainty about learning

Source: Polar Aspect
SCOTMAC 1 students clearly agree that they learned about Arctic and Arctic peoples, as well as communication skills.

Agreement on areas of learning from SCOTMAC 1
(% of responding students; n=22)

- Arctic as region: 95%
- Arctic issues & challenges: 95%
- Arctic Council: 100%
- Indigenous peoples: 91%
- Indigenous rights: 82%
- Communication skills: 95%

Source: Polar Aspect
SCOTMAC 1 students also clearly agree that MAC-style learning effective and inspiring

### Agreement on effectiveness of learning from SCOTMAC 1
(% of responding students; n=22)

<table>
<thead>
<tr>
<th>Statement</th>
<th>Agree or Strongly Agree</th>
<th>Neutral</th>
<th>Disagree or Strongly Disagree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learned more about Arctic than if just read book</td>
<td>86</td>
<td>9</td>
<td>5</td>
</tr>
<tr>
<td>Playing role helped understanding of State/PP</td>
<td>91</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Simulations like SCOTMAC good way to learn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inspired to learn more about Arctic</td>
<td>100</td>
<td></td>
<td></td>
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Source: Polar Aspect

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SCOTMAC 1 students would also recommend Polar Aspect MAC to others, and a great majority would do it all again.

Intention to recommend (left) or repeat (right) Polar Aspect MAC
(% of responding students; n=22)

Source: Polar Aspect

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Testimonials from SCOTMAC 1 students were extremely positive overall—a selection

- ‘Amazingly organised and appreciated every minute of this experience.’
- ‘The initial presentations by experts helped everyone gain more knowledge on the Arctic including environmental and social issues. The introductory speech on the Arctic as a homeland was incredibly inspiring and thought-provoking.’
- ‘Having to carry out prior research and research during the conference developed my understanding of the Arctic as a homeland, and so my image when I close my eyes is no longer just an idyllic icy background with a polar bear, but a diverse array of people, ecosystems, infrastructure and issues.’
- ‘I walked away from this conference with a much deeper understanding about myself and how to effectively communicate with others in the future.’
- ‘I felt that Anthony was also very helpful at guiding us when we need it but allowing us to do it alone as well.’
- ‘I believe everyone should have the opportunity to do something like this while they are young!’
- ‘It was without doubt the best extra-curricular activity I’ve done whilst at university. Sad to leave!’

Source: Polar Aspect
‘As a Co-host of SCOTMAC I was reminded of the pleasures of being a student and having your eyes opened to new thoughts, fields of activity and experiences.

‘I learnt so much myself as the world of diplomacy is not one that marine scientists habitually engage with. Learning how diplomacy works can give scientists a voice in international decision making.

‘The SCOTMAC experience encouraged me to attend a UN Oceans Conference briefing discussing a draft political declaration for this summer’s summit and to now explore how my institution may be able to contribute at that level.

‘SCOTMAC may have been for the students, but I benefited too and am filled with new ideas and plans. Thank you, Anthony and Polar Aspect, for such a wonderful experience.’
Planning is well underway for SCOTMAC 2 at Glasgow Caledonian University in one month’s time

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SCOTMAC 2 led by Polar Aspect and ScAN/GCU, with collaboration and funding from additional partners

Most grateful to Scottish Government once again for support from Arctic Connections Fund

Source: Polar Aspect; organisations shown (logos)
Diverse group of 32 undergraduate students—28 delegates and 4 Secretariat staff—registered for SCOTMAC 2

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</tr>
<tr>
<td>• Glasgow School of Art</td>
<td>• Biology/Ecology</td>
<td>• Belgium</td>
</tr>
<tr>
<td>• Heriot-Watt Uni</td>
<td>• Business/Finance</td>
<td>• France</td>
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<tr>
<td>• Uni of Strathclyde</td>
<td>• Philosophy/Theology</td>
<td>• Sweden</td>
</tr>
<tr>
<td></td>
<td>• Politics/Public Policy/IR/Law</td>
<td>• United Kingdom</td>
</tr>
<tr>
<td></td>
<td>• Security Studies</td>
<td>• United States of America</td>
</tr>
</tbody>
</table>

SCOTMAC 2 applications oversubscribed by more than 2x, even with shorter application period than for SCOTMAC 1

Source: Polar Aspect
SCOTMAC 2 to focus on questions of future of Arctic cooperation, and climate engineering in Arctic

As before, participating students supplied with guidebooks and starter research library

Source: Polar Aspect; Arctic Portal (company and VLT logos)
SCOTMAC 2 ‘teaching morning’ to feature Arctic, diplomatic and political experts

Dr Giselle Arruda
University of Aberdeen

Dr Sennan Mattar
Glasgow Caledonian University

Dr Anthony Speca
Polar Aspect, Trent University and University of East Anglia

Distinguished diplomat, politician or Arctic expert
Could this be you or someone you know?

Source: Polar Aspect; Giselle Arruda, Sennan Mattar (respective photos); Shamim Amri/NicePNG (person icon)
We’re looking very much forward to opening SCOTMAC 2 on GCU campus in just a few weeks’ time!

Many thanks to our generous hosts and partners at GCU Mary Robinson Centre for Climate Justice
Finally, please allow me to introduce myself – I’m Anthony Speca of Polar Aspect...

Dr Anthony Speca

- I’m on faculty of University of East Anglia, Trent University (Canada) and Norwich School
- I teach Geography and Circumpolar Studies at university, and Philosophy, Politics and Economics at school
- I’m also Managing Director of UArctic Læra Institute for Circumpolar Education
- I was formerly civil servant with Government of Nunavut in Canadian Arctic
- I’m passionate about educating today’s youth about Arctic!

I’d be delighted to hear from any students, faculty or universities interested in MAC!

Source: Polar Aspect
...and I’m Sennan Mattar of Scottish Arctic Network of universities

Dr Sennan Mattar

• I’m lecturer and researcher with Mary Robinson Centre for Climate Justice at Glasgow Caledonian University
• I’m also Vice-Lead for UArctic Thematic Network on Climate Justice in the Arctic
• I teach about climate justice and community-led climate action
• My research has focused on climate-policy equity, climate resilience after Covid-19, and just transitions from coal
• I’m dedicated to climate-change education and research in Scotland

Come and visit us in Scotland – our network is growing and focused on all things Arctic!

Source: Polar Aspect; Sennan Mattar and Glasgow Caledonian University
Thank you / Danke

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