



BCS ACADEMY OF COMPUTING BOARD

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BCS VP Academy Board

UKCRC Event
15th January 2021

Overview

- Update on responsibilities and activities from BCS Academy of Computing Board
- Share structure and inter-relationships
- Detail on specific projects from Academy of Computing Board
- Opportunity for questions and discussion

Academy Board of Computing Status

- The BCS Academy of Computing is a cooperative partnership between
 - BCS,
 - Council of Professors and Heads of Computing (CPHC) and
 - UK Computing Research Committee (UKCRC)
- The Academy of Computing Board reports to BCS Trustee Board
- Cooperation with other VPs
 - Finance
 - Community
 - Society
 - Organisation & Employers

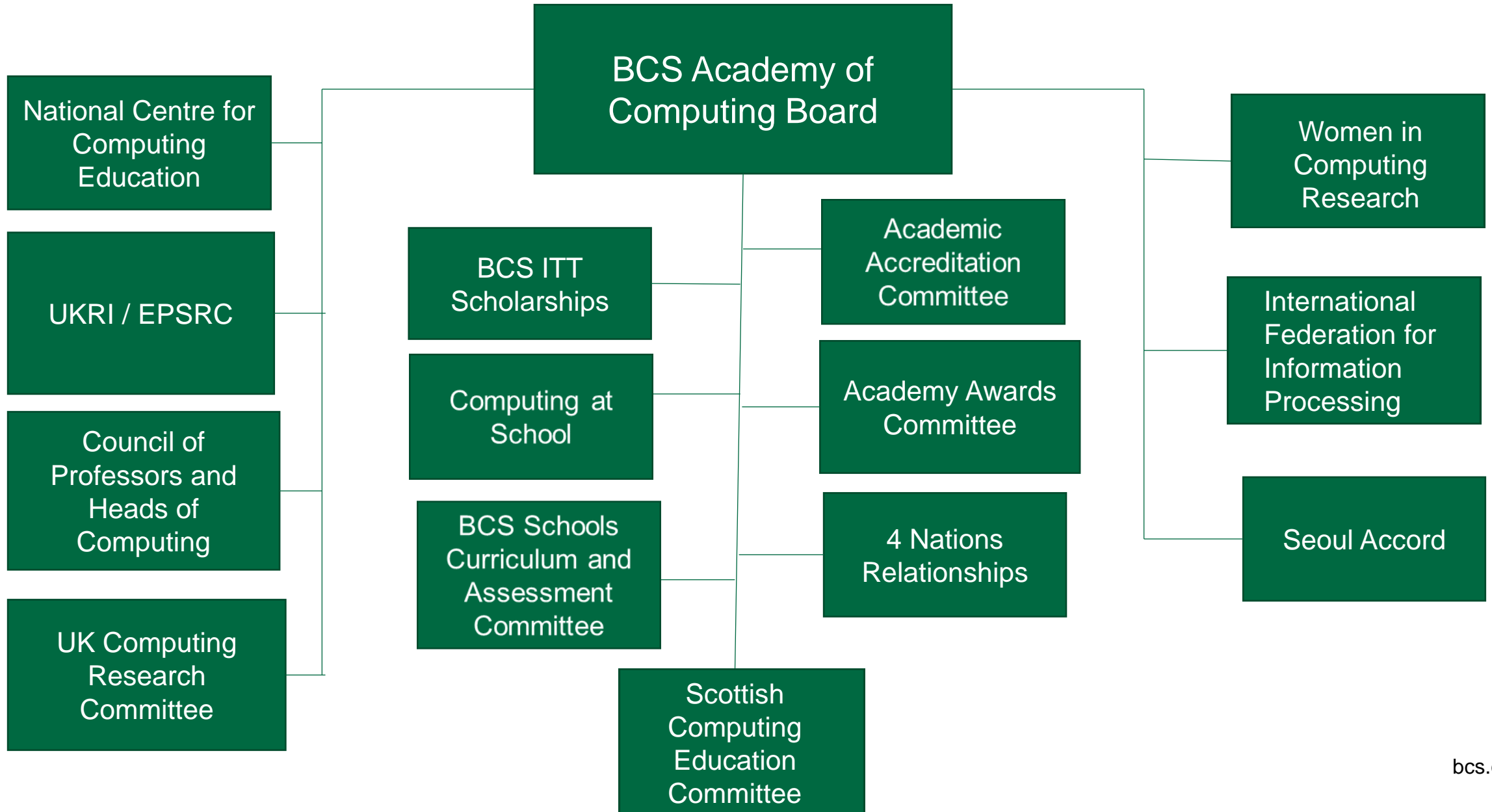
Academy Board of Computing ToR

- Advance the creation, study and application of knowledge in computing for the benefit of the public
- This includes, but is not limited to:
 - Promote the benefits, successes and challenges of computer science and engineering through public engagement
 - Establish computing as a core academic discipline at every level of education, which is recognised as of equal value to any natural science or engineering discipline and treated accordingly
 - Develop and support a cohesive community inclusive of scholars, researchers and professionals with a shared commitment to the advancement of computing

Board Membership

- Chair
- From BCS
 - Director of Education
 - Director of Policy
 - Head of Education
- Representation
 - BCS Council
 - Chair, Academic Accreditation Committee
 - Chair, BCS Academy Awards Committee
 - Chair, School Curriculum and Assessment Committee (or deputy)
 - Chair, Computing at School Board (or deputy)
 - Chair, Academy Quality Review Panel
 - Ex-officio members from Scottish Computing Education Committee and Women in Research Group
 - UKCRC - Kevin Jones, Plymouth
 - CPHC (2)
 - EPSRC
 - 4 home nations
- Plus – 2 nominated BCS members

BCS Academy of Computing Board Links



Academy of Computing Board Projects

- Review of academic accreditation – underway and due to produce final report in time for implementation by Sept 2021 (this is a cross BCS project)
 - Value for students, HEIs and employers
- EDI review of Awards and Lectures
- Development programme for new computer science academics
- Mentoring programme for computer science academics, with particular focus on support for BAME academics
- Collaboration with UKCRC
 - Impact of algorithms on society
 - AI and ethics / Data Science and ethics
- Re-establish relationship with IFIP
- Collaboration with other BCS directorates, including
 - Membership
 - Publications
 - Community
 - Society
 - Employers

National Centre for Computing Education update

- **29,500 teachers** engaged representing 8,500 primary schools and 3,000 secondary schools.
- **7,600 teachers** have benefited from NCCE continuing professional development (CPD).
- **1,300 “Computer Science Accelerator” graduates** certified to teach GCSE Computer Science.
- **2,000 teachers and 18,000 students** using Isaac Computer Science to support A level Computer Science.
- **34 Computing Hubs** acting as local champions for Computer Science and delivering face to face, in-school and remote support.
- **275 Computing at School (CAS) Communities of Practice** providing peer support and networking.
- **Teach Computing curriculum** launched, including 500 hours of learning materials from Key Stage 1 to 4.
- Supporting partners include **ARM, BT, Google, IBM, Microsoft, Nationwide and Rolls-Royce**

Computing at School (CAS) update

- Total member accounts were up to 37,839 (a 21% increase since NCCE with 9,757 active unique members (26.7% in last year),
- 330 Active Communities,
- 409 Active Community Leaders (up 101% from this time last year).
- 19% of the 512 active Master Teachers are also active Community Leaders.
- There were 691 Community Meetings with 19,044 attendees in the last year
- 65% of attendees at CAS Community of Practice meetings were from state-maintained schools in England (since NCCE launched)

Moving Forward

- Improve communication across the CS community, including inside and outside BCS
- Address inclusion and diversity
- Enhance accreditation
- Re-establish relationships as per initial terms of reference
- Promote relevance of Academy Board of Computing

THANK YOU