A plan for sustainable development goals

ICOMOS International Scientific Committee for Stone

SDGWG strategic planning meeting 04, 14 July 2022
John Hughes / Chang-Xue Shu
John Hughes

- BSc Geology, University of Edinburgh, 1990; PhD in Geology, University of Glasgow, 1995
- 1996- University of Paisley/ University of the West of Scotland (2007- )
- Reader
- President ICOMOS ISCS
- UKRI Peer Review College member
- Int Advisory Committee ITAM Czech Academy of Sciences
- RILEM committees on mortar materials since 1997
- Getty Conservation Guest Scholar
- Provenance recognition and microscopy/petrography
- Value in heritage conservation and effects of climate change

• 2015-16 Institute for the Conservation and Valorization of Cultural Heritage Italy (CNR-ICVBC)

• 2015-16 Needham Research Institute, University of Cambridge, ceramics history, awarded scholarship

• 2016 SAH-Getty International fellow

• 2017-2022, KU Leuven Belgium, MSCA individual fellowship, EU2020 | Dept. Architecture; Raymond Lemaire International Centre for Conservation

• conservation – construction history – history of science

• Building material; raw source, process and product; material culture

• (digital) Methodology
ICOMOS International Scientific Committee for Stone
iscs.icomos.org
Founded 1967

“...researches and promotes the understanding, protection, conservation and management of inorganic porous building materials (IPBM), such as natural and artificial stones including mortars, concrete and brick”

Historic contributions:
- RILEM test methods for testing stone (1980)
- Torun Guidelines on conferences in the field (2008)

Membership (under review!): 94 total
35 states
Europe 20, Africa 2, Asia 8, N America 2, Latin America 0, Australasia 2
22 voting members
2021-24 Work plan (current concise version ...draft)

• **Membership**: maintain up-to-date information; address underrepresentation - materials, regions, voting members. Promote activities to support and develop the careers of emerging professionals

• **Communications**: Re-launch website, with membership profiles, details of working groups. Distribute regular (4 per year) newsletter. Annual online meeting and additional working group meetings and seminars where demand arises

• **Working Groups**: topics to be determined by consultation. Ensure ISCS representation on ICOMOS working groups (e.g. SDGWG, CCCHWG).

• **Inter-committee initiatives**: Establish links and joint initiatives with other ICOMOS scientific and national committees

• **Materials**: work of the committee to incorporate all IPBM in historic structures, thus providing a more holistic basis to consider the conservation of non-organic material structures

**Development**: ground-up consultation, **WG representation**, embedding WG principles in ISCS, internal WG and document development, joint initiatives with other ISCs.

**Bureau**:
President: John Hughes (University of the West of Scotland)

Vice-Presidents: Julie Desarnaud (Belgian Building Research Institute / Royal Institute of Cultural Heritage), Nevenka Novakovic (Cultural Heritage Preservation Institute of Belgrade),

General Secretary: Tim De Kock (University of Antwerp),

Treasurer: Kim Jiyoung (Korea National University of Cultural Heritage)
### Work plan

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- Step 1: an interior seminar within ISCS (by 2022)
- Step 2: joint ISCS-SDGWG discussion (end 2022 / early 2023)
General question to examine:

What is sustainability in IPBM (inorganic porous building materials) for heritage restoration-conservation?

*Range of IPBM for conservation: Those used for restoration-conservation practice? Does it also include the excavation of source materials of distinguished historical values yet used for new constructions?

- SDG4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all
- SDG7: Ensure access to affordable, reliable, sustainable and modern energy for all
- SDG9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation
- SDG11: Make cities and human settlements inclusive, safe, resilient and sustainable
- SDG12: Ensure sustainable consumption and production patterns
- SDG14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development
1. **Vulnerable IPBM in built heritage: urgent/major challenges today**
   (do the problems also challenge the SDG?)

2. **Raw resources of IPBM (incl. conservation-restoration materials): a revisit to quarrying and other material industries**
   (what are the challenges of the current quarries in terms of SDG? we stress quantitative as well as qualitative approaches; local studies)

3. **Processing of raw resources of IPBM: technologies and stakeholders**
   (are the technologies “sustainable”? what roles are heritage professionals, scientists and local communities playing in this industrial chain, respectively?)

4. **Understanding current production and use of IPBM through historical-cultural approaches**
   (Historical reasons that determined/impacted current production and use of IPBM for restoration)