

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

KU LEUVEN

Chang-xue Shu



- PhD, Conservation of Architectural Heritage, Politecnico di Milano, 2013; M.Sc, Urban Studies, Bauhaus Universität Weimar, 2009; B.Arch. & MA., Architecture, Tongji University Shanghai, 2001-09.
- 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:

- Illustrated glossary on stone deterioration patterns (2008) – now in 12 languages (inc. Chinese, Arabic, Hebrew)
- 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

SDG objectives	contents of development	responsible	status	Year 2022					Year 2023					Year 2024				
				Jan-Feb	Mar-Apr	May-June	Jul-Aug	Sep-Oct	Nov-Dec	Jan-Feb	Mar-Apr	May-June	Jul-Aug	Sep-Oct	Nov-Dec	Jan-Feb	Mar-Apr	May-June
	SDGWG representation		in progress	[Green bar spanning all months from Jan 2022 to Dec 2024]														
	embedding WG principles in ISCS		in progress	[Blue bar spanning from May 2022 to Dec 2024]														
	joint initiatives with SDGWG			[Dark blue bars in Nov 2022, Feb 2023, and Nov 2023]														
	document development			[Purple bar spanning from Jan 2023 to Dec 2024]														
	ground-up consultation																	

- 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)