

## Candidates

The school will be opened to a group of 20 Italian, EU and non-EU international students (enrolled to Master and PhD courses, schools of conservation and Italian "Scuola di Specializzazione in Archeologia"), active in the field of beads, seals and semiprecious materials studies, selected according to the quality of their CV. BA students may also apply, but only if the subject of their thesis is consistent with the subject of the Winter school. Postdocs and professionals interested in beads, seals and semiprecious materials studies are welcome. Candidates are invited to submit their application, completing the form (<http://www.beniculturali.unipd.it/www/summer-and-winter-schools/>), before the deadline (30 November 2018). Applications sent after the deadline will be considered only if the maximum number of 20 participants will not be reached. Incomplete applications and applications presented in other languages than English will not be considered. The results of the selection will be communicated not later than mid December 2018. At the end of the School, an attendance certificate will be released, providing the opportunity to claim 4 C.F.U. – E.C.T.S. (European Credit Transfer System).

## Fees

The school has no fees and will offer the cost of the fieldtrip to all the participants. The best five students, selected by the scientific committee according to their cv, will obtain a grant, covering the accommodation (5 nights, in double or triple room).

# BEADS AND SEALS

## technologies

**PADUA, MURANO (VENICE)**

14th-18th January 2019

The Winter School "Beads and Seals: Technologies" organized by the Department of Cultural Heritage: Archaeology and History of Art, Cinema and Music (dBC) is a precious occasion for students to get first-hand information on various ancient technologies of processing semiprecious materials and glass, and updated scientific approaches applied for their reconstruction. World-reputed experts from various countries, leading advanced research on different cultural context (from stone beads and seals technologies in the Indus Valley and Mesopotamia, ancient Mesoamerica and China, to case-studies on glass beads making), will present the most recent results of their work. The ultimate goal is the cross-breeding of such specialized knowledge from one context to the others, and encouraging students to take up new research, making the best of the personal interaction with the experts in a networking perspective.

**dBC**  
DIPARTIMENTO  
DEI BENI CULTURALI  
ARCHEOLOGIA STORIA  
DELL'ARTE DEL CINEMA  
E DELLA MUSICA



UNIVERSITÀ  
DEGLI STUDI

# BEADS AND SEALS

## technologies

**PADUA, MURANO (VENICE)**

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### Scientific direction:

Prof. Massimo Vidale and Prof. Ivana Angelini

### Scientific secretariat:

Dr. Cristina Boschetti

### Secretariat & Contacts:

Dr. Valentina Donadel ([valentina.donadel@unipd.it](mailto:valentina.donadel@unipd.it))

### Dipartimento dei Beni Culturali:

archeologia, storia dell'arte, del cinema e della musica

Piazza Capitanjato, 7 - 35139 Padova

Front Office: +39 049 8274673

Fax: +39 049 8274670

[dipartimento.beniculturali@unipd.it](mailto:dipartimento.beniculturali@unipd.it)

[www.beniculturali.unipd.it](http://www.beniculturali.unipd.it)

Con la collaborazione di



ISMEO

## INTERNATIONAL WINTER SCHOOL

### Monday, January 14th (Sala Edicole)

9.00 - 9.15

**Massimo Vidale** - Introduction

9.15 - 10.00

**Francesco d'Errico, Solange Rigaud, Africa Pitarch Marti** - The earliest beads and methods to make them speak

10.15 - 11.00

**Marco Peresani** - Juggling interpretation of Neanderthal behaviour across the last twenty years of debates

11.15 - 11.30 *Coffee Break*

11.30 - 12.15

**Donatella Usai** - Beads making in Neolithic Sudan

12.30 - 13.15

**Stefano Viola** - Technologies of microdrilling on stone beads: methods and techniques between experiments and interpretation

13.30 - 14.30 *Lunch Break*

14.30 - 15.15

**Roberto Micheli** - Stones and Shells: some insights into the shapes, raw materials and manufacturing techniques of Neolithic personal ornaments of northern Italy

15.30 - 16.15

**Jonathan Mark Kenoyer** - Analytical and experimental approaches to the study of stone bead and seal production of the Indus Tradition, 4000-1300 BCE

16.30 - 17.15

**Margaret Sax** - Scanning electron microscopy investigation of ancient lapidary technology: engraving quartz cylinder seals in Mesopotamian and working nephrite jade in China

### Tuesday, January 15th (Aula Diano/Sala Consiglio)

9.00 - 9.45

**Heather M.-L. Miller, Gregory V. Braun** - A Tale of Two Methods: Contradictory analyses of firing debris from Harappan faience and/or steatite beads (and other objects)

10.00 - 10.45

**Ivana Angelini, Cinzia Bettineschi** - Technology and composition of early vitreous materials from the Indio - Pakistani subcontinent

11.00 - 11.15 *Coffee Break*

11.15 - 12.00

**Julian Henderson** - Where are we now? The earliest European glass industry - and bead making - from northern Italy

12.15 - 13.00

**Marco Verità** - Analytical investigations of 6th - 7th century Lombard beads from Italian archaeological sites

13.15 - 14.30 *Lunch Break*

14.30 - 15.00

**Gianni Moretti** - Venetian beads in the 20th century

15.15 - 16.00

**Cristina Boschetti** - The Lombards in Italy and glass beads (6th-7th century CE): technology, consumption and social identity

### Wednesday, January 16th

Trip to Murano (Venice), visit to the Glass Museum

### Thursday, January 17th (Aula Diano/Sala Consiglio)

09.00 - 09.45

**Massimo Vidale, Ivana Angelini, Dennys Frenez** - The use of laser and confocal microscopy for the paleotechnological study of Indus stamp seals

10.00 - 10.45

**Dennys Frenez** - Indus Civilization administrative technology. New insights on Harappan stamp seals and their impressions on clay tags

11.00 - 11.15 *Coffee Break*

11.15 - 12.00

**Enrico Ascalone** - The Far East in the West. Eastern Imports at Ebla between the end of 3rd and beginning of 2nd Millennium BC

12.15 - 13.00

**Alessandro Lo Giudice, Alessandro Re** - A scientific approach to the provenance study of lapis lazuli

13.15 - 14.30 *Lunch Break*

14.30 - 15.15

**Massimo Vidale** - The lapis-lazuli "workshops" of Shahr-i Sokhta and their technology (Iran, 2650-2550 BC), reconsidered

15.30 - 17.30

Experimental workshop focused on the ancient bead making industries of Shahr-i Sokhta (Iran, 3rd millennium BC), and other paleotechnological projects. Participants will examine the microtools and beadmaking debris with a stereomicroscope available at the dBC, University of Padua, endowed with a digital camera and overhead projection system. Participants will be encouraged to bring their own samples (either polished samples mounted on epoxy resin or actual solid samples of beads for micromorphological inspection at the digital stereomicroscope, with overhead projection) and share observation within the group.

### Friday, January 18th (Aula Diano/Sala Consiglio)

9.00 - 9.45

**Alain Queffelec, Fouéré, Ledevin** - New insights on the perforation techniques used by guadeloupean Amerindians (French West Indies)

10.00 - 10.45

**Paolo Bellintani, Ursula Thun** - Amber beads production in the Late Bronze age site of Campestrin

11.00 - 11.15 *Coffee Break*

11.15 - 12.00

**Massimo Vidale, Ivana Angelini, Michele Cupitò** - New insights on the manufacturing technology and trade of amber beads in protohistoric northern Italy

12.15 - 13.00

**Mubariz Ahmed Rabbani** - The beads of Early Historic Barikot (Bir-kot-ghwandai, Swat): Preliminary results of the typology, technology and identification

13.15 - 14.30 *Lunch Break*

14.30 - 15.15

**Alok Kumar Kanungo** - Beads: Naga Society and culture

15.30 - 16.15

**Jonathan Mark Kenoyer, Kuldeep Kumar Bhan, Massimo Vidale, Alok Kumar Kanungo** - Agate beads industries of Khambat (Gujarat, India): tradition and change

16.30 *Final discussion*