

## 10th International Symposium on Knappable Materials

### **Presentation Videos**

#### **Opening**

10th International Symposium on Knappable Materials

<http://www.ub.edu/ubtv/video/10th-international-symposium-on-knappable-materials>

Opening Ceremony - 10th International Symposium on Knappable Materials

<http://www.ub.edu/ubtv/video/10th-international-symposium-on-knappable-materials-opening-ceremony>

#### **Theme 1 - Chaîne opératoire**

##### **Session 1 - Raw material exploitation strategies – mining and surface collecting**

Introduction to the study of siliceous raw materials. Isabel Cánovas

<http://www.ub.edu/ubtv/video/introduction-to-the-study-of-siliceous-raw-materials-isabel-canovas>

Nubian Levallois production system, raw material availability and variability in Arabia. Hilbert Yamandu

<http://www.ub.edu/ubtv/video/nubian-levallois-production-system-raw-material-availability-and-variability-in-arabia-hilbert-yamandu>

Is there a socio-economic interpretation for the sustained exploitation... Paul Fernandes

<http://www.ub.edu/ubtv/video/is-there-a-socio-economic-interpretation-for-the-sustained-exploitation-paul-fernandes>

Shape evaluation in lithic analysis. Liga Zarina

<http://www.ub.edu/ubtv/video/shape-evaluation-in-lithic-analysis-liga-zarina>

Local lithic raw material procurement in Mousterian times. Rafael Domingo

<http://www.ub.edu/ubtv/video/local-lithic-raw-material-procurement-in-mousterian-times-rafael-domingo>

Geomorphological context and Middle Paleolithic procurement strategies for surface outcrops of Serreta flint. Antonio Tarrío

<http://www.ub.edu/ubtv/video/geomorphological-context-and-middle-paleolithic-procurement-strategies-for-surface-outcrops-of-serreta-flint-antonio-tarrino>

Raw material procurement and land use in the northern Mediterranean arc during the Mousterian. Stefano Grimaldi

<http://www.ub.edu/ubtv/video/raw-material-procurement-and-land-use-in-the-northern-mediterranean-arc-during-the-mousterian-stefano-grimaldi>

Chocolate flint mine in Orońsko (southern Poland): new approaches. Katarzyna Kerneder

<http://www.ub.edu/ubtv/video/chocolate-flint-mine-in-oronsko-southern-poland-new-approaches-katarzyna-kerneder>

Discussion. Session 1 – Raw material exploitation strategies – mining and surface collecting

<http://www.ub.edu/ubtv/video/discussion-session-1-raw-material-exploitation-strategies-mining-and-surface-collecting>

Raw material exploitation strategies on the flint mining site of Spiennes. Hélène Collet

<http://www.ub.edu/ubtv/video/raw-material-exploitation-strategies-on-the-flint-mining-site-of-spiennes-heyley-collet>

Prehistoric chert mining evidence in Serra Llarga (Castelló de Farfanya, Spain). Marta Sánchez de la Torre

<http://www.ub.edu/ubtv/video/prehistoric-chert-mining-evidence-in-serra-llarga-castelloy-de-farfanya-spain-marta-sanchez-de-la-tore>

“Mons Basin flint cie”: A status report on the flint mining sites of the Mons Basin during the Neolithic. Jean-Philippe Collin

<http://www.ub.edu/ubtv/video/ymons-basin-flint-ciey-a-status-report-on-the-flint-mining-sites-of-the-mons-basin-during-the-neolithic-jean-philippe-collin>

Using airborne laser scanning data for mine surface relief studies. Katarzyna Radziszewska

<http://www.ub.edu/ubtv/video/using-airbone-laser-scanning-data-for-mine-surface-relief-studies-katarzyna-radziszewska>

Variability of lithic sites north of Melbourne, Victoria: A case study. Andrea Murphy

<http://www.ub.edu/ubtv/video/variability-of-lithic-sites-north-of-melbourne-vicotria-a-case-study-andrea-murphy>

In quartz we trust, when on high. Roark Muhlen-Schulte

<http://www.ub.edu/ubtv/video/in-quartz-we-trust-when-on-high-roark-muhlen-schulte>

The chert workshop of Tozal de la Mesa (Alins del Monte, Huesca, Spain) and its exploitation in historical times. Marta Sánchez de la Torre

<http://www.ub.edu/ubtv/video/the-chert-workshop-of-tozal-de-la-mesa-alins-del-monte-huesca-spain-and-its-exploitation-in-historical-times-marta-sanchez-de-la-torre>

## **Session 2 - Ancient lithic trade and economics**

Upper Palaeolithic social networks in Central and Northern Portugal as revealed by lithic raw material sourcing. Thierry Aubry

<http://www.ub.edu/ubtv/video/upper-palaeolithic-social-networks-in-central-and-northern-portugal-as-revealed-by-lithic-raw-material-sourcing-thierry-aubry>

Characterization of the lithic resources of the Picamoixons site (Tarragona, NE Iberian Peninsula). María Soto

<http://www.ub.edu/ubtv/video/characterization-of-the-lithic-resources-of-the-picamoixons-site-tarragona-ne-iberian-peninsula-maria-soto>

Moving stones: first hypothesis about flint management in several Neolithic sites of Central Apulia (south-east Italy). Sandra Sivilli

<http://www.ub.edu/ubtv/video/moving-stones-first-hypothesis-about-flint-management-in-several-neolithic-sites-of-central-apulia-south-east-italy-sandra-sivilli>

An overview of the knapped stone economy at the Tartaria site (Romania). Otis Crandell

<http://www.ub.edu/ubtv/video/an-overview-of-the-knapped-stone-economy-at-the-tartaria-site-romania-otis-crandell>

The export of Heligoland flint in Prehistory with special focus on Danish finds. Klaus Hirsch

<http://www.ub.edu/ubtv/video/the-export-of-heligoland-flint-in-prehistory-with-special-focus-on-danish-finds-klaus-hirsch>

New data concerning “large blades” in Catalonia. Xavier Mangado

<http://www.ub.edu/ubtv/video/new-data-concerning-large-blades-in-catalonia-xavier-mangado>

New challenges in the study of lithic raw materials in Central Italy at the dawn of metal working societies. Sem Scaramucci

<http://www.ub.edu/ubtv/video/new-challenges-in-the-study-of-lithic-raw-materials-in-central-italy-at-the-dawn-of-metal-working-societies-sem-scaramucci>

The specialized canaanean blade production and distribution system. Francesca Manclossi  
<http://www.ub.edu/ubtv/video/the-specialized-canaanean-blade-production-and-distribution-system-francesca-manclossi>

Lithic movement and exchange across the Adriatic. Robert Tykot  
<http://www.ub.edu/ubtv/video/lithic-movement-and-exchange-across-the-adriatic-robert-tykot>

Exchange networks from Close-up: The case of Lipari obsidian. Andrea Vianello  
<http://www.ub.edu/ubtv/video/exchange-networks-from-close-up-the-case-of-lipari-obsidian-andrea-vianello>

Kura-Araxes obsidian: sources and trade in the Early Bronze Age. Bengi Basak Selvi  
<http://www.ub.edu/ubtv/video/kura-araxes-obsidian-sources-and-trade-in-the-early-bronze-age-bengi-basak-selvi>

Processing techniques of the knapped stone production at Yurac Corral archaeological site (Ayacucho, Perú). Leslye Valenzuela  
<http://www.ub.edu/ubtv/video/processing-techniques-of-the-knapped-stone-production-at-yurac-corrall-archaeological-site-ayacucho-y-peruy-leslye-valenzuela>

Flints in iron age graves: flint from the cemetery at Weklice, Northern Poland. Magdalena Natuniewicz-Sekula, & Dagmara H. Werra  
<http://www.ub.edu/ubtv/video/flints-in-iron-age-graves-flint-from-the-cemetery-at-weklice-elblag-county-elblag-district-northern-poland-dagmara-h-werra>

Chalcolithic raw material economy in light of new data from the 'Przyjaźń'. Janusz Budziszewski  
<http://www.ub.edu/ubtv/video/chalcolithic-raw-material-economy-in-light-of-new-data-from-the-pryjazn-janusz-budziszewski>

Difficulties and results in the assessment of lithic raw material availability. Nora Viviana Franco  
<http://www.ub.edu/ubtv/video/difficulties-and-results-in-the-assessment-of-lithic-raw-material-availability-nora-viviana-franco>

### **Session 3 - Stone tool production and processing techniques**

Flintknapping in the Pleistocene-Holocene transition. Margarita Vadillo  
<http://www.ub.edu/ubtv/video/flintknapping-in-the-pleistocene-holocene-transition-margarita-vadillo>

Raw material choice matters. Milic Bogdana  
<http://www.ub.edu/ubtv/video/raw-material-choice-matters-milic-bogdana>

Early Harappan disc beads and stone knapping innovations. Ajithprasad Pottentavida  
<http://www.ub.edu/ubtv/video/early-harappan-disc-beads-and-stone-knapping-innovations-ajithprasad-pottentavida>

A comparison of lithic assemblages belonging to economically diverse settlements flourishing during mid. Charusmita Gadekar  
<http://www.ub.edu/ubtv/video/a-comparison-of-lithic-assemblages-belonging-to-economically-diverse-settlements-flourishing-charusmita-gadekar>

Lithic debitage study and organization of settlement in Neolithic Western Japan. Atsushi Uemine  
<http://www.ub.edu/ubtv/video/lithic-debitage-study-and-organization-of-settlement-in-neolithic-western-japan-atsushi-uemine>

Discussion. Session 3 – Stone tool production and processing techniques

<http://www.ub.edu/ubtv/video/discussion-session-3-y-stone-tool-production-and-processing-techniques>

Stone tools have traces of the knappers' habit. Takua Asai

<http://www.ub.edu/ubtv/video/stone-tools-have-traces-of-the-knappers-habit-takua-asai>

The Barranco Cardones workshop (Arucas, Gran Canaria). Yurena Naranjo

<http://www.ub.edu/ubtv/video/the-barranco-cardones-workshop-arucas-gran-canaria-yurena-naranjo>

Variability in Middle Stone Age core reduction in Southern Africa. Peter Hiscock

<http://www.ub.edu/ubtv/video/variability-in-middle-stone-age-core-reduction-in-southern-africa-peter-hiscock>

Late Middle Paleolithic industries of Grotte de la Verpillière II (Saône-et-Loire, France). Jens Axel Frick

<http://www.ub.edu/ubtv/video/late-middle-paleolithic-industries-of-grotte-de-la-verpillieyre-ii-saoyne-et-loire-france-jens-axel-frick>

Middle Paleolithic technical behavior at the Su13 of Oscurusciuto Rock Shelter, Southern Italy. Giulia Marciani

<http://www.ub.edu/ubtv/video/middle-paleolithic-technical-behavior-at-the-su-13-of-oscurusciuto-rock-shelter-southern-italy-giulia-marciani>

Technical ruptures in Abric Romani Middle Palaeolithic site. Francesca Romagnoli

<http://www.ub.edu/ubtv/video/technical-ruptures-in-abric-romaniy-middle-palaeolithic-site-francesca-romagnoli>

A fresh look at the Boker Tachtit lithic assemblages following renewed excavations. Mae Goder

<http://www.ub.edu/ubtv/video/a-fresh-look-at-the-boker-tachtit-lithic-assemblages-following-renewed-excavations-mae-goder>

Stone tool production in Northwestern Spain. Carlos Rodríguez

<http://www.ub.edu/ubtv/video/stone-tool-production-in-northwestern-spain-carlos-rodriguez>

Knappers of the Bajo Deba. Maite García Rojas

<http://www.ub.edu/ubtv/video/knappers-of-the-bajo-deba-maite-garcia-rojas>

A technological overview of the Noaillian Gravettian of Riparo Mochi (Balzi Rossi, Italy). Fabio Santaniello

<http://www.ub.edu/ubtv/video/a-technological-overview-of-the-noaillian-gravettian-of-riparo-mochi-balzi-rossi-italy-fabio-santaniello>

Raw material procurement and its consequences for knapping technology in the Middle Palaeolithic site of Katta Sai. Kot Malgorzata

<http://www.ub.edu/ubtv/video/raw-material-procurement-and-its-consequences-for-knapping-technology-in-the-middle-palaeolithic-site-of-katta-sai-kot-malgorzata>

#### **Session 4 - Use-wear analyses - signs of usage on stone tools (a.k.a. traceology)**

What is a nice flake like you doing in a place like this? Esther López Ortega

<http://www.ub.edu/ubtv/video/what-si-a-nice-flake-like-you-doing-in-a-place-like-this-esther-lopez-ortega>

Use-wear analysis of quartzite lithic implements from the Middle Paleolithic site of Lagoa Do Bando. Luigi Berruti

<http://www.ub.edu/ubtv/video/use-wear-analysis-of-quartzite-lithic-implements-from-the-middle-paleolithic-site-of-lagoa-do-bando-luigi-berruti>

Discussion 1. Session 4 - Use-wear analyses - signs of usage on stone tools (a.k.a. traceology)

<http://www.ub.edu/ubtv/video/discussion-1-session-4>

Use wear and hafting evidences on quartz tools from Vale da Pedra Forada site. Ignacio Clemente

<http://www.ub.edu/ubtv/video/use-wear-and-haft-evidences-on-quartz-tools-from-vale-da-pedra-forada-site-ignacio-clemente>

Tool function and human behaviour in Fuente del Trucho. Rafael Domingo

<http://www.ub.edu/ubtv/video/tool-function-and-human-behaviour-in-fuente-del-trucho-rafael-domingo>

Functional approach to the rock crystal technology in high mountain environments. Juan Luis Fernández

<http://www.ub.edu/ubtv/video/functional-approach-to-the-rock-crystal-technology-in-high-mountain-environments-juan-luis-fernandez>

Toolkits, chaînes opératoires and cross craft interaction in the domestic Single Grave Culture. Virginia García

<http://www.ub.edu/ubtv/video/toolkits-chaines-operatoires-and-cross-craft-interaction-in-the-domestic-single-grave-culture-virginia-garcia>

An archaeological experiment and new knowledge about the chipped stone industry from Vinča culture. Vera Bogosavljevic

<http://www.ub.edu/ubtv/video/an-archaeological-experiment-and-new-knowledge-about-the-chipped-stone-industry-from-vinca-culture>

Using texture quantification of sickle gloss through confocal microscopy to study the origins of agriculture in the near east. Juan José Ibáñez

<http://www.ub.edu/ubtv/video/using-texture-quantification-of-sickle-gloss-through-confocal-microscopy-to-study-the-origins-of-agriculture-in-the-near-east-juan-jose-ibanez>

The Spike Scraper of the Guadiana valley. Israel Andrade

<http://www.ub.edu/ubtv/video/the-spike-scraper-of-the-guadiana-valley-israel-andrade>

Discussion 2. Session 4 - Use-wear analyses - signs of usage on stone tools (a.k.a. traceology)

<http://www.ub.edu/ubtv/video/discussion-2-session-4>

## **Theme 2 - Auxilliary sciences**

### **Session 5 - Microcrystalline quartz as a geological material**

Determining chemical characteristics and markers of Neolithic quartz artifacts and debitage using portable XRF. Jari Okkonen

<http://www.ub.edu/ubtv/video/determining-chemical-characteristics-and-markers-of-neolithic-quartz-artifacts-and-debitage-using-portable-xrf-jari-okkonen>

### **Session 6 - Characterising lithic sources**

Raw material sources of knapped stone tools from the excavation of the prehistoric site at Toumba Thessaloniki. Stamatia Karageorgiou

<http://www.ub.edu/ubtv/video/raw-material-sources-of-knapped-stone-tools-from-the-excavation-of-the-prehistoric-site-at-toumba-thessaloniki-stamatia-karageorgiou>

Cherty rocks from the territory of Serbia as potential raw material for knapped stone artefacts. Kristina Saric

<http://www.ub.edu/ubtv/video/cherty-rocks-from-the-territory-of-serbia-as-potential-raw-material-for-knapped-stone-artefacts-kristina-saric>

Heterogeneity of knappable raw material used for chipped stone artifact production at the Mesolithic site of Lepenski Vir. Kristina Saric

<http://www.ub.edu/ubtv/video/heterogeneity-of-knappable-raw-material-used-for-chipped-stone-artifact-production-at-the-mesolithic-site-of-lepenski-vir-kristina-saric>

The mineral composition of "Chocolate flint." Dagmara Werra

<http://www.ub.edu/ubtv/video/the-mineral-composition-of-chocolate-flint-dagmara-werra>

Gargano cherts: multiparametric protocol for provenance determination. Giacomo Eramo

<http://www.ub.edu/ubtv/video/gargano-cherts-multiparametric-protocol-for-provenance-determination-giacomo-eramo>

Discussion 1. Session 6 - Characterising lithic sources

<http://www.ub.edu/ubtv/video/discussion-1-session-6>

Chert in its diverse natural occurrences. Paul Fernandes

<http://www.ub.edu/ubtv/video/chert-in-its-diverse-natural-occurrences-paul-fernandes>

The archaeometric study of obsidian from Gran Canaria. Jaume Buxeda

<http://www.ub.edu/ubtv/video/the-archaeometric-study-of-obsidian-from-gran-canaria-jaume-buxeda>

First archaeopetrological approximation of the provenance of the Neolithic axes and other artifacts from the Can Sadurní Cave. Mar Rey-Solé

<http://www.ub.edu/ubtv/video/first-archaeopetrological-approximation-of-the-provenance-of-the-neolithic-axes-and-other-artifacts-from-the-can-sadurni-cave-mar-rey-sole>

The marine chert from Las Lezas and its prehistoric exploitation. Rafael Domingo

<http://www.ub.edu/ubtv/video/the-marine-chert-from-las-lezas-and-its-prehistoric-exploitation-rafael-domingo>

Monegros-type chert: petrographic characterization and prehistoric usage. Rafael Domingo

<http://www.ub.edu/ubtv/video/monegros-type-chert-petrographic-characterization-and-prehistoric-usage-rafael-domingo>

The Vegamian formation. Diego Herrero Alonso

<http://www.ub.edu/ubtv/video/the-vegamian-formation-diego-herrero-alonso>

The Escalada Formation. Natividad Fuertes

<http://www.ub.edu/ubtv/video/the-escalada-formation-natividad-fuertes>

The Irish lithic landscape project. Killian Driscoll

<http://www.ub.edu/ubtv/video/the-irish-lithic-landscape-project-killian-driscoll>

Discussion 2. Session 6 - Characterising lithic sources

<http://www.ub.edu/ubtv/video/discussion-2-session-6>

Sourcing of north American Huron great lakes basin Early Holocene chert artifacts by LA-ICP-MS. Patrick Julig

<http://www.ub.edu/ubtv/video/sourcing-of-north-american-huron-great-lakes-basin-early-holocene-chert-artifacts-by-la-icp-ms-patrick-julig>

Chert characterization using reflectance spectroscopy. Ryan Parish

<http://www.ub.edu/ubtv/video/chert-characterization-using-reflectance-spectroscopy>

Mineralogy and chemical composition of lithic artifacts for identification of provenance in Salobo archaeological sites. Lima Costa

<http://www.ub.edu/ubtv/video/mineralogy-and-chemical-composition-of-lithic-artifacts-for-identification-of-provenance-in-salobo-archaeological-sites-lima-costa>

Discussion 3. Session 6 - Characterising lithic sources

<http://www.ub.edu/ubtv/video/discussion-3-session-6>

## **Session 7 - Lithotheques - collections of comparative raw materials**

The Irish lithic landscapes lithotheque. Killian Driscoll

<http://www.ub.edu/ubtv/video/the-irish-lithic-landscapes-lithotheque-killian-driscoll>

Presenting Lusolit. Telmo Pereira

<http://www.ub.edu/ubtv/video/presenting-lusolit-telmo-pereira>

Flint sources and their usage in Sardinia: recent advances. Céline Bressy-Leandri

<http://www.ub.edu/ubtv/video/flint-sources-and-their-usage-in-sardinia-recent-advances>

Evaluating lithic raw material potential in a context of geological complexity. Sem Scaramucci

<http://www.ub.edu/ubtv/video/evaluating-lithic-raw-material-potential-in-a-context-of-geological-complexity-sem-scaramucci>

Lithic raw material sources of southern Germany. Markus Siegeris

<http://www.ub.edu/ubtv/video/lithic-raw-material-sources-of-southern-germany-markus-siegeris>

Towards "Lithotheca III" Katalin Biró

<http://www.ub.edu/ubtv/video/towards-lithotheca-iii-katalin-biro>

A textual survey of different raw materials utilized in the manufacturing of prehistoric polished stone tools in Eastern India. Paromita Bose

<http://www.ub.edu/ubtv/video/a-textual-survey-of-different-raw-materials-utilized-in-the-manufacturing-of-prehistoric-polished-stone-tools-in-eastern-india-paromita-bose>

Discussion. Session 7 - Lithotheques - collections of comparative raw materials

<http://www.ub.edu/ubtv/video/discussion-session-7>

## **Theme 3 - Special topic sessions**

### **Session 8 - Gemology: Obsidian and quartz as gemstones**

Sorcery and ceremony associated with quartz. Vanessa Edmons

<http://www.ub.edu/ubtv/video/sorcery-and-ceremony-associated-with-quartz>

Knapping metamorphic dolomite to make bracelets. Francisco Martínez Sevilla

<http://www.ub.edu/ubtv/video/knapping-metamorphic-dolomite-to-make-bracelets-francisco-martinez-sevilla>

Discussion. Session 8 - Gemology - obsidian and quartz as gemstones

<http://www.ub.edu/ubtv/video/discussion-session-8>

### **Session 9 - Experimental flint knapping**

Experimental insights into differential heat impact among lithic artifacts. Guillermo Bustos

<http://www.ub.edu/ubtv/video/experimental-insights-into-differential-heat-impact-among-lithic-artifacts>

Experimental study on flint hammers use in Acheulean and Mousterian workshop assemblages in the center of the Iberian Peninsula. Víctor Lamas

<http://www.ub.edu/ubtv/video/experimental-study-on-flint-hammers-use-in-acheulean-and-mousterian-workshop-assemblages-in-the-center-of-the-iberian-peninsula-victor-lamas>

Impact fractures: an experimental procedure. Stefano Grimaldi

<http://www.ub.edu/ubtv/video/impact-fractures-an-experimental-procedure-stefano-grimaldi>

Water and flint - "water treatment" and "fresh flint", two contradictory concepts? Rengert Elburg

<http://www.ub.edu/ubtv/video/water-and-flint-water-treatment-and-fresh-flint-two-contradictory-concepts>

Experimental approaches to investigating the Chaîne opératoire of a Gravettian pendant from Mitoc. Diana Vornicu

<http://www.ub.edu/ubtv/video/experimental-approaches-to-investigating-the-chaine-operatoire-of-a-gravettian-pendant-from-mitoc-diana-vornicu>

### **Session 10 - Stirring the wheel on human behaviour: Mechanical devices for testing material performance**

Edge reduction variability in quartzite and chert. Joao Marreiros

<http://www.ub.edu/ubtv/video/edge-reduction-variability-in-quartzite-and-chert-joao-marreiros>

The equotip hardness tester. Carlos Rodríguez-Rellán

<http://www.ub.edu/ubtv/video/the-equotip-hardness-tester-carlos-rodriguez-rellan>

Evaluating the feasibility of robot-aided microwear analysis: preliminary results of the Robocut project. Johannes Pfleging

<http://www.ub.edu/ubtv/video/evaluating-the-feasibility-of-robot-aided-microwear-analysis-preliminary-results-of-the-robocut-project-johannes-pfleging>

Experimental design and inference in lithic studies: a controlled experiment perspective. Sam C. Lin

<http://www.ub.edu/ubtv/video/experimental-design-and-inference-in-lithic-studies-a-controlled-experiment-perspective-sam-c-lin>

### **Session 11 - Gunflints: Production, distribution and use**

Gunflint oriented flint mines in southern Poland revealed by Airborne Laser Scanning. Michal Szubski

<http://www.ub.edu/ubtv/video/gunflint-oriented-flint-mines-in-southern-poland-revealed-by-airborne-laser-scanning-michal-szubski>

### **Session 12 - Silcrete as a lithic raw material in global context: Geology, sourcing and techno-economics**

What factors govern the procurement and use of silcrete during the Middle Stone Age of the Western Cape in South Africa? Manuel Will

<http://www.ub.edu/ubtv/video/what-factors-govern-the-procurement-and-use-of-silcrete-during-the-middle-stone-age-of-the-western-cape-in-southafrica-manuel-will>

The exploitation of silcretes during the Middle and Upper Paleolithic in the Massif Central, France. Rebecca Wragg

<http://www.ub.edu/ubtv/video/the-exploitation-of-silcretes-during-the-middle-and-upper-paleolithic-in-the-massif-central-france-rebecca-wragg>

Heat treatment of silcrete. Patrick Schmidt

<http://www.ub.edu/ubtv/video/heat-treatment-of-silcrete-patrick-schmidt>

The use of bipolar percussion to detach Levallois flakes at Howiesons Poort Shelter. Amy Tabrett

<http://www.ub.edu/ubtv/video/the-use-of-bipolar-percussion-to-detach-levallois-flakes-at-howiesons-poort-shelter-amy-tabrett>



Silcrete reduction processes in the Australian desert. Petere Hiscock

<http://www.ub.edu/ubtv/video/silcrete-reduction-processes-in-the-australian-desert-petere-hiscock>

Australian silcretes. Trudy Doelman

<http://www.ub.edu/ubtv/video/australian-silcretes-trudy-doelman>

Discussion. Session 12 - Silcrete as a lithic raw material in global context

<http://www.ub.edu/ubtv/video/discussion-session-12>

### **Session 13 - Obsidian in archaeology and geology**

New study of obsidian blades debitage at Kasov-Cepegov. Pierre Allard

<http://www.ub.edu/ubtv/video/new-study-of-obsidian-blades-debitage-at-kasov-cepegov-pierre-allard>

Provenancing of archaeological obsidians from prehistoric Romania. Clive Bonsall

<http://www.ub.edu/ubtv/video/provenancing-of-archaeological-obsidians-from-prehistoric-romania-clive-bonsall>

Obsidian in the Danube bend. András Markó

<http://www.ub.edu/ubtv/video/obsidian-in-the-danube-bend-andras-marko>

Characteristics of rock micro-texture of obsidian for some obsidian sources of the Islands of Japan. Keiji Wada

<http://www.ub.edu/ubtv/video/characteristics-of-rock-micro-texture-of-obsidian-for-some-obsidian-sources-of-the-islands-of-japan-keiji-wada>

Obsidian provenance during the transition to food production in Antofagasta de la Sierra. Salomon Hocsman

<http://www.ub.edu/ubtv/video/obsidian-provenance-during-the-transition-to-food-production-in-antofagasta-de-la-sierra-salomon-hocsman>

Obsidian in the northern coast of Patagonia. Jimena Alberti

<http://www.ub.edu/ubtv/video/obsidian-in-the-northern-coast-of-patagonia-jimena-alberti>

Discussion. Session 13 - Obsidian - methodological issues of obsidian provenance studies

<http://www.ub.edu/ubtv/video/discussion-session-13>

### **Closing**

10th International Symposium on Knappable Materials. Closing ceremony

<http://www.ub.edu/ubtv/video/10th-international-symposium-on-knappable-materials-closing-ceremony>

Bastoners - traditional dance

<https://www.facebook.com/symposiumontherocks/videos/1696583320570186/>