



BREAKOUT ROOM SCHEDULE

DAY 1 - September 22

Session 1: Finding a Needle in a Haystack: Focused Searches for Biological Materials

10:00 – 10:45 am EST

Breakout Room	Presenters
1-1	<p>A Tripartite Approach to Biomolecule Analysis for the Identification of Chia Oil in Paintings and Lacquerware from New Spain (Mexico) <i>Aleksandra Popowich – Team Presenter</i></p> <p>From egg tempera to oil painting – case studies OF Domenico Ghirlandaio and Sandro Botticelli and the chemistry and microstructure of paints <i>Patrick Dietemann – Team Presenter</i></p> <p>Accretion, accumulation, encrustation? Reconciling scientific and curatorial perspectives when reporting on surface materials on African sculptures <i>Susan Gagliardi – Team Presenter</i></p> <p>MODERATOR: Margaret Holben Ellis</p>
1-2	<p>Archives: Beeswax as a Biomolecular Archive (an exploratory investigation) <i>Alister Sutherland – Team Presenter</i></p> <p>Archaeomicrobiology: Method Development to “Fingerprint” Australian Cultural Ochre Using Microbial DNA Analysis <i>Rachel Popelka-Filcoff – Poster</i></p> <p>MODERATOR: Caroline Tokarski</p>
1-3	<p>A Tripartite Approach to Biomolecule Analysis for the Identification of Chia Oil in Paintings and Lacquerware from New Spain (Mexico) <i>José Lazarte – Team Presenter</i></p> <p>Artist and Researcher in the collection - a pilot project <i>Lukas Simon – Poster</i></p> <p>MODERATOR: Erma Hermans</p>
1-4	<p>Extracting Stories from DNA preserved by 19th century Americana <i>Katarzyna Anna Vargas – Team Presenter</i></p> <p>Archives: Beeswax as a Biomolecular Archive (an exploratory investigation) <i>Matthew Collins – Team Presenter</i></p> <p>Artist and Researcher in the collection - a pilot project</p>

	<p><i>Stefan Simon – Poster</i></p> <p>MODERATOR: Chris Mason</p>
1-5	<p>Rethinking Approaches to Museum Practices: Why People Matter <i>Amy Tjiong – Invited Speaker</i></p> <p>ArcHives: Beeswax as a Biomolecular Archive (an exploratory investigation) <i>Samuel Johns – Team Presenter</i></p> <p>MODERATOR: Constantine Petridis</p>
1-6	<p>Non-traditional materials in the ground layer of paintings from the Danish Golden Age identified via MS-based proteomics <i>Fabiana Di Gianvincenzo – Team Presenter</i></p> <p>ArcHives: Beeswax as a Biomolecular Archive (an exploratory investigation) <i>Tuuli Kasso – Team Presenter</i></p> <p>MODERATOR: Frank Trujillo</p>
1-7	<p>The Chilkat Dye Project <i>Ellen Carrlee – Team Presenter</i></p> <p>Minimally invasive analysis: Fact or fantasy? The challenge of 14C dating Early Modern material <i>Laurie Waters – Poster</i></p> <p>Archaeomicrobiology: Method Development to “Fingerprint” Australian Cultural Ochre Using Microbial DNA Analysis <i>Shanan Tobe – Poster</i></p> <p>MODERATOR: Julie Arslanoglu</p>

DAY 1 - September 22

Session 2: Discovering Hidden Biological Materials

12:15 – 1:00 pm EST

Breakout Room	Presenters
2-1	<p>Overlooked Organics in Decorative Arts: Cataloging Skin-Based, Skeletal, and Hard Keratinous Animal Tissues <i>Ann Wagner – Team Presenter</i></p> <p>From egg tempera to oil painting – case studies of Domenico Ghirlandaio and Sandro Botticelli and the chemistry and microstructure of paints <i>Ophélie Ranquet – Team Presenter</i></p> <p>MODERATOR: Caroline Tokarski</p>

<p>2-2</p>	<p>Reaching trace level protein detection to study archaeological artefacts and museum objects: new proteomics methods based on high resolution mass spectrometry <i>Catherine Gilbert – Poster</i></p> <p>Overlooked Organics in Decorative Arts: Cataloging Skin-Based, Skeletal, and Hard Keratinous Animal Tissues <i>Lara Kaplan – Team Presenter</i></p> <p>MODERATOR: Chris Mason</p>
<p>2-3</p>	<p>Animal Tendon on Late Medieval Wooden Artefacts – Problems of Analysis and Questions of Historic Preparation of Tendon Material <i>Beate Fuecker – Poster</i></p> <p>Overlooked Organics in Decorative Arts: Cataloging Skin-Based, Skeletal, and Hard Keratinous Animal Tissues <i>Rosie Ann Grayburn – Team Presenter</i></p> <p>MODERATOR: Margaret Holben Ellis</p>
<p>2-4</p>	<p>(1) Artist and Researcher in the collection - a pilot project (2) The microbiome of a XIV century medieval codex: are microbes part of cultural heritage objects? <i>Cecilia Flocco – Poster</i></p> <p>The Chilkat Dye Project <i>Ellen Carrlee – Team Presenter</i></p> <p>MODERATOR: Erma Hermens</p>
<p>2-5</p>	<p>Minimally invasive analysis: Fact or fantasy? The challenge of 14C dating Early Modern material <i>Jane Malcolm-Davies – Poster</i></p> <p>The Chilkat Dye Project <i>Tami Lasseter Clare – Team Presenter</i></p> <p>MODERATOR: Frank Trujillo</p>
<p>2-6</p>	<p>A labour of love: Biocodicological analysis of a medieval birthing girdle <i>Sarah Fiddymment – Poster</i></p> <p>How It's Made: Emulsion (Organ) Tanned Leathers <i>Yueh-Ting Chiu - Poster</i></p> <p>MODERATOR: Constantine Petridis</p>
<p>2-7</p>	<p>Non-proximate Ambient Mass Spectrometry Sampling of Large, Intact Cultural Heritage Objects <i>Asher Newsome – Poster</i></p>

	<p>Non-traditional materials in the ground layer of paintings from the Danish Golden Age identified via MS-based proteomics <i>Cecil Krarup Andersen – Team Presenter</i></p> <p>MODERATOR: Amy Tjong</p>
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DAY 2 - September 23

Session 3: Unexpected Discoveries

9:45 – 10:30 am EST

Breakout Room	Presenters
3-1	<p>Non-traditional materials in the ground layer of paintings from the Danish Golden Age identified via MS-based proteomics <i>Cecil Krarup Andersen – Team Presenter</i></p> <p>Hydrogen deuterium exchange mass spectrometry to elucidate reticulations, interactions and conformational changes of proteins in tempera paintings <i>Francesca Galluzzi – Poster</i></p> <p>A labour of love: Biocodicological analysis of a medieval birthing girdle <i>Sarah Fiddymont – Poster</i></p> <p>MODERATOR: Chris Mason</p>
3-2	<p>Proteomic analysis of samples from three Raphael Cartoons: Original material, repair or retouching? <i>Annamaria Cucina – Poster</i></p> <p>Non-traditional materials in the ground layer of paintings from the Danish Golden Age identified via MS-based proteomics <i>Fabiana Di Gianvincenzo – Team Presenter</i></p> <p>MODERATOR: Caroline Tokarski</p>
3-3	<p>Life histories of ivory objects in museum collections <i>Ashley Coutu – Poster</i></p> <p>Hiding in plain sight: The biomolecular identification of seal use in Romanesque medieval manuscripts <i>Élodie Lévêque – Team Presenter</i></p> <p>Scrimshaw: unlocking the cultural and biological archive of sea mammal art <i>Laura Courto – Poster</i></p> <p>MODERATOR: Constantine Petridis</p>
3-4	<p>Artist and Researcher in the collection - a pilot project <i>Lukas Simon – Poster</i></p>

	<p>Hiding in plain sight: The biomolecular identification of seal use in Romanesque medieval manuscripts <i>Matthew Teasdale – Team Presenter</i></p> <p>MODERATOR: Julie Arslanoglu</p>
3-5	<p>ZooMS identifications of human and cervid barbed points from Mesolithic Doggerland <i>Joannes Dekker – Poster</i></p> <p>Archaeomicrobiology: Method Development to “Fingerprint” Australian Cultural Ochre Using Microbial DNA Analysis <i>Rachel Popelka-Filcoff – Poster</i></p> <p>MODERATOR: Amy Tjong</p>
3-6	<p>A Tripartite Approach to Biomolecule Analysis for the Identification of Chia Oil in Paintings and Lacquerware from New Spain (Mexico) <i>José Lazarte – Team Presenter</i></p> <p>Unleashing top-down mass spectrometry in study of proteinaceous materials in museum objects: Method development using paint models <i>Vaclav Krupicka – Poster</i></p> <p>MODERATOR: Frank Trujillo</p>
3-7	<p>A Tripartite Approach to Biomolecule Analysis for the Identification of Chia Oil in Paintings and Lacquerware from New Spain (Mexico) <i>Aleksandra Popowich – Team Presenter</i></p> <p>Accretion, accumulation, encrustation? Reconciling scientific and curatorial perspectives when reporting on surface materials on African sculptures <i>Clara Granzotto – Team Presenter</i></p> <p>MODERATOR: Erma Hermens</p>

DAY 2 - September 23

Session 4: Seeing the Bigger Picture

12:15 – 1:00 pm EST

Breakout Room	Presenters
4-1	<p>Decolonizing Crocodylian Collections: Developing a model system for bridging Historical Indigenous and Eurocentric interpretations of culturally and economically important species in museum holdings <i>Evon Hekkala – Poster</i></p> <p>Rethinking Approaches to Museum Practices: Why People Matter <i>Patricia Norby – Invited Speaker</i></p> <p>MODERATOR: Caroline Tokarski</p>

<p>4-2</p>	<p>Rethinking Approaches to Museum Practices: Why People Matter <i>Amy Tjong – Invited Speaker</i></p> <p>Overlooked Organics in Decorative Arts: Cataloging Skin-Based, Skeletal, and Hard Keratinous Animal Tissues <i>Rosie Ann Grayburn – Team Presenter</i></p> <p>MODERATOR: Erma Hermens</p>
<p>4-3</p>	<p>Illuminating Genetic Mysteries of the Dead Sea Scrolls <i>Christopher Mason – Team Presenter</i></p> <p>Artist and Researcher in the collection - a pilot project <i>Stefan Simon – Poster</i></p> <p>MODERATOR: Frank Trujillo</p>
<p>4-4</p>	<p>Counting Sheep: Proteomic Analysis (eZooMS) of Legal Documents from Medieval East Anglia <i>Billie Males – Poster</i></p> <p>Illuminating Genetic Mysteries of the Dead Sea Scrolls <i>Noam Mizrahi – Team Presenter</i></p> <p>DNA Barcoding of Northwest Coast Objects: A method for fostering reciprocal relationships between museums and communities <i>Lauren Audi – Poster</i></p> <p>MODERATOR: Aleksandra Popowich</p>
<p>4-5</p>	<p>Extracting Stories from DNA preserved by 19th century Americana <i>Andrew Miranker – Team Presenter</i></p> <p>Overlooked Organics in Decorative Arts: Cataloging Skin-Based, Skeletal, and Hard Keratinous Animal Tissues <i>Ann Wagner – Team Presenter</i></p> <p>Minimally invasive analysis: Fact or fantasy? The challenge of 14C dating Early Modern material <i>Laurie Waters – Poster</i></p> <p>MODERATOR: Constantine Petridis</p>
<p>4-6</p>	<p>Reaching trace level protein detection to study archaeological artefacts and museum objects: new proteomics methods based on high resolution mass spectrometry <i>Catherine Gilbert – Poster</i></p> <p>Minimally invasive analysis: Fact or fantasy? The challenge of 14C dating Early Modern material <i>Jane Malcolm-Davies – Poster</i></p>

	MODERATOR: Margaret Holben Ellis
4-7	<p>Archives: Beeswax as a Biomolecular Archive (an exploratory investigation) <i>Alister Sutherland – Team Presenter</i></p> <p>Extracting Stories from DNA preserved by 19th century Americana <i>Aniko Bezur – Team Presenter</i></p> <p>MODERATOR: Julie Arslanoglu</p>

DAY 3 - September 24

Session 5: New Insights: Why Biological Materials Matter

9:45 – 10:30 am EST

Breakout Room	Presenters
5-1	<p>From egg tempera to oil painting – case studies of Domenico Ghirlandaio and Sandro Botticelli and the chemistry and microstructure of paints <i>Ophélie Ranquet – Team Presenter</i></p> <p>Unleashing top-down mass spectrometry in study of proteinaceous materials in museum objects: Method development using paint models <i>Vaclav Krupicka – Poster</i></p> <p>MODERATOR: Erma Hermens</p>
5-2	<p>Hydrogen deuterium exchange mass spectrometry to elucidate reticulations, interactions and conformational changes of proteins in tempera paintings <i>Francesca Galluzzi – Poster</i></p> <p>From egg tempera to oil painting – case studies OF Domenico Ghirlandaio and Sandro Botticelli and the chemistry and microstructure of paints <i>Patrick Dietemann – Team Presenter</i></p> <p>MODERATOR: Margaret Holben Ellis</p>
5-3	<p>Counting Sheep: Proteomic Analysis (eZooMS) of Legal Documents from Medieval East Anglia <i>Billie Males – Poster</i></p> <p>How It’s Made: Emulsion (Organ) Tanned Leathers <i>Yueh-Ting Chiu – Poster</i></p> <p>MODERATOR: Amy Tjiong</p>
5-4	<p>Archives: Beeswax as a Biomolecular Archive (an exploratory investigation) <i>Matthew Collins – Team Presenter</i></p>

	<p>Hiding in plain sight: The biomolecular identification of seal use in Romanesque medieval manuscripts <i>Matthew Teasdale – Team Presenter</i></p> <p>Rethinking Approaches to Museum Practices: Why People Matter <i>Patricia Norby – Invited Speaker</i></p> <p>MODERATOR: Aleksandra Popowich</p>
5-5	<p>Animal Tendon on Late Medieval Wooden Artefacts – Problems of Analysis and Questions of Historic Preparation of Tendon Material <i>Beate Fuecker – Poster</i></p> <p>Archaeomicrobiology: Method Development to “Fingerprint” Australian Cultural Ochre Using Microbial DNA Analysis <i>Shanan Tobe – Poster</i></p> <p>MODERATOR: Chris Mason</p>
5-6	<p>ZooMS identifications of human and cervid barbed points from Mesolithic Doggerland <i>Joannes Dekker – Poster</i></p> <p>Scrimshaw: unlocking the cultural and biological archive of sea mammal art <i>Laura Courto – Poster</i></p> <p>MODERATOR: Caroline Tokarski</p>
5-7	<p>Non-proximate Ambient Mass Spectrometry Sampling of Large, Intact Cultural Heritage Objects <i>Asher Newsome – Poster</i></p> <p>The Chilkat Dye Project <i>Tami Lasseter Clare – Team Presenter</i></p> <p>DNA Barcoding of Northwest Coast Objects: A method for fostering reciprocal relationships between museums and communities <i>Lauren Audi – Poster</i></p> <p>MODERATOR: Constantine Petridis</p>

DAY 3 - September 24

Session 6: Biological Traces: Building Histories

12:15 – 1:00 pm EST

Breakout Room	Presenters
6-1	<p>Decolonizing Crocodylian Collections: Developing a model system for bridging Historical Indigenous and Eurocentric interpretations of culturally and economically important species in museum holdings <i>Evon Hekkala – Poster</i></p>

	<p>Accretion, accumulation, encrustation? Reconciling scientific and curatorial perspectives when reporting on surface materials on African sculptures <i>Susan Gagliardi – Team Presenter</i></p> <p>MODERATOR: Frank Trujillo</p>
6-2	<p>Illuminating Genetic Mysteries of the Dead Sea Scrolls <i>Noam Mizrahi – Team Presenter</i></p> <p>Accretion, accumulation, encrustation? Reconciling scientific and curatorial perspectives when reporting on surface materials on African sculptures <i>Clara Granzotto – Team Presenter</i></p> <p>MODERATOR: Amy Tjiong</p>
6-3	<p>Extracting Stories from DNA preserved by 19th century Americana <i>Aniko Bezur – Team Presenter</i></p> <p>ArchHives: Beeswax as a Biomolecular Archive (an exploratory investigation) <i>Tuuli Kasso – Team Presenter</i></p> <p>MODERATOR: Erma Hermens</p>
6-4	<p>Extracting Stories from DNA preserved by 19th century Americana <i>Andrew Miranker – Team Presenter</i></p> <p>Illuminating Genetic Mysteries of the Dead Sea Scrolls <i>Christopher Mason – Team Presenter</i></p> <p>MODERATOR: Constantine Petridis</p>
6-5	<p>Life histories of ivory objects in museum collections <i>Ashley Coutu – Poster</i></p> <p>Extracting Stories from DNA preserved by 19th century Americana <i>Katarzyna Anna Vargas – Team Presenter</i></p> <p>MODERATOR: Margaret Holben Ellis</p>
6-6	<p>Proteomic analysis of samples from three Raphael Cartoons: Original material, repair or retouching? <i>Annamaria Cucina – Poster</i></p> <p>Overlooked Organics in Decorative Arts: Cataloging Skin-Based, Skeletal, and Hard Keratinous Animal Tissues <i>Lara Kaplan – Team Presenter</i></p> <p>MODERATOR: Julie Arslanoglu</p>
6-7	(1) Artist and Researcher in the collection - a pilot project

(2) The microbiome of a XIV century medieval codex: are microbes part of cultural heritage objects?

Cecilia Flocco – Poster

Hiding in plain sight: The biomolecular identification of seal use in Romanesque medieval manuscripts

Élodie Lévêque – Team Presenter

ArcHives: Beeswax as a Biomolecular Archive (an exploratory investigation)

Samuel Johns – Team Presenter

MODERATOR: Caroline Tokarski

Name	DAY 1		Day 2		Day 3	
	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6
Aleksandra Popowich	1-1		3-7			
Alister Sutherland	1-2			4-7		
Amy Tjong	1-5			4-2		
Andrew Miranker				4-5		6-4
Aniko Bezur				4-7		6-3
Ann Wagner		2-1		4-5		
Annamaria Cucina			3-2			6-6
Asher Newsome		2-7			5-7	
Ashley Coutu			3-3			6-5
Beate Fuecker		2-3			5-5	
Billie Males				4-4	5-3	
Catherine Gilbert		2-2		4-6		
Cecil Krarup Andersen		2-7	3-1			
Cecilia Flocco		2-4				6-7
Christopher E Mason				4-3		6-4
Clara Granzotto			3-7			6-2
Ellen Carrlee	1-7	2-4				
Elodie Leveque			3-3			6-7
Evon Hekkala				4-1		6-1
Fabiana Di Gianvincenzo	1-6		3-2			
Francesca Galluzzi			3-1		5-2	
Jane Malcolm-Davies		2-5		4-6		
Joannes (Jan) Dekker			3-5		5-6	
Jose Lazarte Luna	1-3		3-6			
Katarzyna Anna Vargas	1-4					6-5
Lara Kaplan		2-2				6-6
Laura Courto			3-3		5-6	
Lauren Audi				4-4	5-7	
Laurie Waters	1-7			4-5		
Lukas Simon	1-3		3-4			
Matthew Collins	1-4				5-4	
Matthew Teasdale			3-4		5-4	
Noam Mizrahi				4-4		6-2
Ophelie Ranquet		2-1			5-1	
Patricia Norby				4-1	5-4	
Patrick Dietemann	1-1				5-2	
Rachel Popelka-Filcoff	1-2		3-5			
Rosie Ann Grayburn		2-3		4-2		

Samuel Johns	1-5					6-7
Sarah Fiddymment		2-6	3-1			
Shanan Tobe	1-7				5-5	
Stefan Simon	1-4			4-3		
Susan Elizabeth Gagliardi	1-1					6-1
Tami Lasseter Clare		2-5			5-7	
Tuuli Kasso	1-6					6-3
Vaclav Krupicka			3-6		5-1	
Yueh-Ting Chiu		2-6			5-3	