

## PROGRAM AT A GLANCE

*Posters are displayed in the East Ballroom Foyer, Thursday and Friday, Nov -6-7.  
Authors will be at their posters during designated coffee breaks.*

### WEDNESDAY, NOVEMBER 5, 2008

- 4:00 – 9:00pm Registration  
Sheraton Hotel Lobby
- 7:00 – 10:00pm Welcome Reception (hors d'oeuvres and cash bar)  
Windows on King, Sheraton Hotel

### THURSDAY, NOVEMBER 6, 2008

- 8:00 – 9:00am Coffee, tea and juice (Centre Ballroom Foyer)
- 8:00 – 5:00pm Registration (East Ballroom Foyer)
- 8:00 – 8:30 Poster set-up (East Ballroom Foyer)
- 8:30 – 10:00 Session 1: A Saskatchewan Sampler of Research in Physical and Biomedical Anthropology Symposium (Centre Ballroom)
- 10:30 – 12:00 Session 2: Primate and Hominine Anatomy and Evolution (Centre Ballroom)
- 8:35 – 12:00pm Session 3: Nutrition Research in Physical Anthropology Symposium (East Ballroom)
- 10:00 – 10:30 Break (Centre Ballroom Foyer)
- 12:00 – 1:00pm Lunch
- 1:00 – 5:00pm Session 4: A Celebration of Shelley R. Saunders' Contribution to Physical Anthropology Symposium (East Ballroom)
- 2:35 – 3:05pm Break (Centre Ballroom Foyer)
- 4:30 Poster take-down
- 5:00 – 6:30pm Reception and Gift Announcement: The Shelley Saunders Scholarships in Anthropology (West Ballroom)  
By invitation; hosted by Peter George, President, McMaster University
- 8:00pm Pub night  
**Sláinte** Irish Pub, 33 Bowen Street (5-10 minutes walking distance)  
*directions from hotel's main entrance on King St. West  
turn left and walk 2 blocks to James St.  
turn right on James St. South and walk for 1 block  
turn left on Main St. W. and walk for 2.5 blocks, just past John St. S.  
turn right on Bowe*

### FRIDAY, NOVEMBER 7, 2008

- 8:00 – 9:00am Coffee, tea and juice (Centre Ballroom Foyer)
- 8:00 – 5:00 Registration (East Ballroom Foyer)
- 8:00 – 8:30 Poster set-up (East Ballroom Foyer)
- 9:00 – 12:00 Session 5: Primate Biology, Behaviour and Ecology (Centre Ballroom)

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| 9:00 – 12:00   | Session 6: New Advances in Isotopic Analysis Symposium (East Ballroom)  |
| 10:00 – 10:30  | Break (Centre Ballroom Foyer)   |
| 12:00 – 1:30pm | Lunch   |
| 1:30 – 4:30    | Session 7: Identifying Individuals and Populations: Methods and Applications (Centre Ballroom)  |
| 1:30 – 4:30    | Session 8: Imperilled Lives: Infectious Disease among Infants and Children Symposium (East Ballroom)  |
| 2:45 – 3:15    | Break (Centre Ballroom Foyer)   |
| 4:15 – 4:30    | Poster take-down  |
| 4:30 – 5:30    | Business Meeting (Centre Ballroom)  |
| 07:00 – 12:00  | Banquet (Ballroom East)   |
| 07:00 – 7:30   | Cash bar  |
| 07:30 – 8:30   | Buffet dinner   |
| 08:30 – 9:30   | Keynote speaker: Dr. David Waltner-Toews, Department of Population Medicine, Ontario Veterinary College, University of Guelph<br><i>Title: Chickens, Sex and Salmonella</i> |

**SATURDAY, NOVEMBER 8, 2008**

|                 |  |
|-----------------|--|
| 08:00 – 09:00am | Coffee, tea and juice (Centre Ballroom Foyer)  |
| 08:00 – 12:00   | Registration (East Ballroom Foyer)   |
| 08:30 – 11:00   | Session 9: Taphonomic Influences Affecting Skulls Found in a Modern Forensic Context Symposium (Centre Ballroom) |
| 11:00 – 12:15   | Session 10: Ancient DNA in the Genomics Era: Possibilities and Potential Pitfalls Symposium (Centre Ballroom)    |
| 09:00 – 12:15   | Session 11: Health and Disease in Past Populations (East Ballroom)   |
| 10:00 – 10:30   | Break (Centre Ballroom Foyer)  |
| 12:15 – 12:30   | Closing comments and farewells   |

\* eligible for student prize

## CAPA / ACAP 2007 Schedule of Papers and Posters

### Thursday, November 6

- 8:00-9:00 Coffee, tea and juice (Centre Ballroom Foyer)  
8:00-5:00 Registration (East Ballroom Foyer)  
8:00-8:30 Poster set-up

#### East Ballroom Foyer

##### Posters

10:00-10:30am

- 1a Blackburn A. Challenges and potential of using 3D images for outline analysis  
1b Boston C, Short L, Nelson A, and G Conlogue. Artificial cranial modification is the practice of modifying the cranial vault, altering the normal patterns of growth and development of the cranium and face.  
1c Buchanan-Berrigan S. Invisible homes, invisible children: an orphanage counter-narrative from Hamilton, Ontario.  
1d Clegg LM and C Katzmarzyk  
Comparison of Lovejoy et al., Buckberry and Chamberlain and Osborne auricular surface ageing methods applied to a Bosnian skeletal sample.

2:45-3:15pm

- 1e Fauser K. Temporal and spatial patterns of tuberculosis in Southern Ontario ossuaries.  
1f Fraccaro P. Physiological anthropology: limb length, body mass, and heat loss.  
1g Hague MC, Padiak J, Kahlon B, and SR Saunders. A comparison of the fourth and first rib aging techniques on a 19th century Ontario sample.  
1h Janjua MA. Differential patterns of infant mortality in Hamilton, Ontario, 1929.

#### Centre Ballroom (morning)

##### Session 1: A Saskatchewan Sampler of Research in Physical and Biomedical Anthropology: of Molecules, Bones and Bodies to Archives, Applications, and Populations Symposium

**Organizer and Chair: Sylvia Abonyi**

- 8:30-8:45 Introduction: Sylvia Abonyi  
8:45-9:00 Swanston T. Bridging disciplines at the University of Saskatchewan: The microbial DNA analysis of tissues from Kwäday Dän Ts'ınchi.  
9:00-9:15 Cooper DHM, Britz CD, Thomas L and JG Clement: Variation in human cortical bone microstructure: relating femoral osteon geometry to age, sex and body size.  
9:15-9:30 McNeill S and P Hackett. Slow to care: Indian Affairs and the founding of the first TB Indian Hospital, Dynevor 1939.  
9:30-9:45 Stoops M. Exploring culture and identity as an indicator of health in a Northern Saskatchewan Community.  
9:45-10:00 Discussion

10:00-10:30 *Coffee Break (Centre Ballroom Foyer) and Posters (East Ballroom Foyer)*

**Session 2: Primate and Hominine Anatomy and Evolution**

**Chair: Mary Silcox**

- 10:30-10:45 Blumenfeld J and SR Leigh. Variation in hominin patterns of supraorbital size, shape, and development.
- 10:45-11:00 Drapeau MSM. Metacarpal head rotation in apes and humans.
- 11:00-11:15 Ginter J. A bioarchaeological study of the transition from foraging to pastoralism in the Eastern Cape, South Africa during the late Holocene.
- 11:15-11:30 Silcox M, Dalmyn CK and JI Bloch. Brain evolution in early primates and the endocast of *Ignacius graybullianus*.
- 11:30- 11:45 Zeller A. Serendipity strikes.
- 11:45-12:00 Discussion

**East Ballroom (morning)**

**Session 3: Nutrition Research in Physical Anthropology Symposium**

**Organizer and Chair: Tracey Galloway**

- 8:30-8:45 Introduction: Tracey Galloway
- 8:45-9:00 Sellen DW. Ecology and evolutionary biology of primate lactations: towards an agenda for future research.
- 9:00-9:15 Melin A, McCabe G and L Fedigan. Are colorful fruits more nutritious? An assessment of the importance of colour vision for frugivory by capuchin monkeys
- 9:15-9:30 Wilson W and J Bulkan. Sex differences in linear-growth retardation among Makushi Amerindians: evidence for greater male environmental sensitivity?
- 9:30-9:45 Gozdzik A, Barta JL, Wu H, Wagner D, Cole DEC, Vieth R, Whiting SJ and E.J. Parra. The role of vitamin D intake and skin pigmentation on wintertime vitamin D status in a sample of healthy young adults of diverse ancestry living in the Greater Toronto Area.
- 9:45-10:00 Dolphin A. Using teeth as bioindicators of nutrition and function: problems and potential.
- 10:00-10:30 *Coffee Break (Centre Ballroom Foyer) and Posters (East Ballroom Foyer)*
- 10:30-10:45 Galloway T. What time is lunch?: An anthropological analysis of recent changes to Ontario elementary school timetables.
- 10:45-11:00 Rudzik A. Factors influencing early introduction of supplementary infant foods among low-income first-time mothers in the city of São Paulo, Brazil.
- 11:00-11:15 Banik SD. Age and ethnic variation in nutritional status, adiposity and body composition of adult female Oraons and Saraks of Ranchi District Jharkhand, India: an anthropometric appraisal
- 11:15-12:00 Discussion
- 12:00- 1:00 *Lunch*

**East Ballroom (afternoon)**

- Session 4 A Celebration of Shelley R. Saunders' Contribution to Physical Anthropology Symposium**  
**Organizers and Chairs: John Albanese and Tracy Prowse**
- 1:00-01:05 Opening remarks: John Albanese and Tracy Prowse
- 1:05-01:20 Cardoso H. Testing DeVito and Saunders' (1990) discriminant functions for sex determination from deciduous teeth: sexual dimorphism in mortality (or social?) bias.
- 1:20-01:35 Hillson S. Growth and morphology in the Kylyndra children's cemetery, island of Astypalaia in Greece.
- 1:35-01:50 FitzGerald C, Hillson S and S Saunders. Deciduous tooth growth in an ancient Greek infant cemetery.
- 1:50-2:05 Devault A, Hallman S, Holt S, Janjua MA, Thomson C, Saunders SR and CM FitzGerald. Variation in deciduous enamel deposition rates in two Italian samples.
- 2:05-2:20 Herring A and MA Katzenberg. Childhood health, diet and demography – reflections on the Belleville Project.
- 2:20–2:35 Pfeiffer S and L Harrington. Indicators of childhood health among foragers and agriculturists of Southern Africa.
- 2:35 – 3:05 *Coffee Break (Centre Ballroom Foyer) and Posters (East Ballroom Foyer)*
- 3:05-3:20 Harrington L. The development of postcranial robusticity in juvenile southern African hunter-gatherers: a case study for investigating patterns of growth and development in past populations.
- 3:20-3:35 Pavelka M. From SEM analysis of archeological bone to studying the effects of a major hurricane on a howler monkey population: Shelley Saunders impact on the career and work of a primatologist.
- 3:35-3:50 Agarwal S and P Beauchesne. Current paleohistology: methods and interpretation of bone microstructure.
- 3:50-4:05 Barta J, von Hunnius TE, Prowse T, Yang D, Bondioli L, Macchiarelli R, and SR Saunders. Mothers, do you know where your children are?: Examining mtDNA diversity in two Roman cemetery sites.
- 4:05-4:20 Albanese J, Cardoso HFV and SR Saunders. An approach for developing sample specific metric sex determination methods.
- 4:20-4:35 Concluding remarks: John Albanese and Tracy Prowse
- 4:35-5:00 Discussion
- 5:00-6:30** ***Closed Reception and Gift Announcement: The Shelley Saunders Scholarships in Anthropology (West Ballroom). By invitation.***  
*Hosted by Peter George, President, McMaster University*
- 8:00** ***Pub night: Sláinte Irish Pub, 33 Bowen Street (walking distance)***  
*directions from hotel's main entrance on King St. West:*  
*turn left and walk 2 blocks to James St.*  
*turn right on James St. South and walk for 1 block*  
*turn left on Main St. W. and walk for 2.5 blocks, just past John St. S.*  
*turn right on Bowen*

## Friday, November 7

8:00-9:00 Coffee, tea and juice (Centre Ballroom Foyer)

8:00-5:00 Registration (East Ballroom Foyer)

### East Ballroom Foyer

#### Posters

10:00-10:30am

- 2a Kron, H. Human sacrifice among the Maya: an analysis of patterns in Belize.
- 2b Manifold, B.M. Fragile bones: The differential preservation of non-adult skeletal remains from British sites
- 2c Nelson, AJ, Holowka S, Allen G, Castle M, Chhem R, Cunningham I, Ewanchyna M, Friedman S, Garvin G, Gibson G, Granton P, Kogon S, Longstaffe F, Lywood V, Nguyen N, Romanagnoli C, Shaw R, Trumpour M, Wade A, White CD and T Wilson. The ROM Mummy Project – 30 years of progress.

2:45-3:15pm

- 2d Phillips S. Hookworm disease, infant mortality, and the Rockefeller Foundation: tracing the epidemiologic transition of a Caribbean population.
- 2e Ribot I. Search for a historical cemetery in rural Québec (Saint Ignace-du-Lac, Lanaudière, 1906-1930): preliminary demographical and archaeological results.
- 2r Wheeler SM and TL Dupras. Skeletal growth in a Roman Period skeletal sample of juveniles from the Dakhleh Oasis, Egypt.

### Centre Ballroom (morning)

#### Session 5: Primate Biology, Behaviour and Ecology

**Chair: Anne Zeller**

9:00-9:15 Behie A. Variation in cortisol levels in a wild population of black howler monkeys (*Alouatta pigra*) in Southern Belize.

9:15-9:30 Colquhoun IC. Utilizing ethnoprimateology to investigate crowned lemur (*Eulemur coronatus*) historical biogeography in northern Madagascar.

9:30-9:45 Parr N, Campos F, Melin A, and L Fedigan. Seasonal ranging behaviour in white-faced capuchins (*Cebus capucinus*).

9:45-10:00 Sendall C. Edge influences on lemur parasites and trees in Ankarafantsika National Park, Madagascar.

10:00-10:30 Coffee Break (Centre Ballroom Foyer) and Posters (East Ballroom Foyer)

10:30-10:45 Solomon S. Field methods for researching crowned lemur (*Eulemur coronatus*) habitat and distribution in northern Madagascar.

10:45-11:00 \*Turner S. Case studies of two free-ranging Japanese macaque births.

11:00-11:15 Valenta K and LM Fedigan. The nearest neighbour effect: spatial patterns of seed dispersal by white-faced capuchins (*Cebus capucinus*).

11:15-12:00 Discussion

### **East Ballroom (morning)**

#### **Session 6: New Advances in Isotopic Analysis Symposium**

**Organizers: Mike Richards and Anne Keenleyside**

**Chair: Anne Keenleyside**

- 9:00-9:15 Richards, MP and O Nehlich. Sulphur isotope ratios in human bone collagen as a measure of past diets and migration.
- 9:15-9:30 Hillier ML, Boaventura R, Jackes M, and Richards M. Stable isotope analysis and the investigation of marine resource exploitation and social complexity in Neolithic Portugal.
- 9:30-9:45 Katzenberg MA. Stable isotope variation among Bronze Age fisher-hunter-gatherers from Lake Baikal.
- 9:45-10:00 Garvie-Lok S, Pennycook C and R. Stark. Scurvy in a late Roman Greek child, revisited: a multi-technique approach.

10:00-10:30 *Coffee Break (Centre Ballroom Foyer) and Posters (East Ballroom Foyer)*

- 10:30-10:45 White CD, Price TD and FJ Longstaffe. Residential histories of the sacrifices at the Pyramid of the Moon, Teotihuacan: the final chapter.
- 10:45-11:00 Grimes V, Copeland S, le Roux P, Sponheimer M, Lee-Thorp J, de Ruiter D and M. Richards. Recent developments in micro-sampling techniques of modern and archaeological dental tissues for strontium isotope ratios.
- 11:00-11:15 \*Pennycook C. Dietary reconstruction of rural Greek diet in the valley of Stymphalos
- 11:15-11:30 Varney TL, Anderson LM, Sparkes HA. Stable isotope analysis of the Schyler Flatts burial ground.
- 11:30-11:45 Hewitt BR, Fryer BJ, White CD and FJ Longstaffe. Is newer better? Comparing femtosecond laser to traditional methods for strontium isotope analysis of bone and enamel in ancient human mobility studies.
- 11:45-12:00 Discussion

12:00- 1:30 *Lunch*

### **Centre Ballroom (afternoon)**

#### **Session 7 Identifying Individuals and Populations: Methods and Applications**

**Chair: Michael Schillacci**

- 1:30-1:45 \*Sharman J. Fertility in paleodemography: Roman Period Kellis 2, Dakhleh Oasis, Egypt
- 1:45-2:00 Meindl RS and RP Mensforth. Population growth and age structure in the late archaic period of the eastern woodlands, USA.
- 2:00-2:15 Parish J. Unexpected mass burial site at Rochefort Point, Fortress of Louisbourg National Historic Site of Canada, Nova Scotia.
- 2:15-2:30 Curtis J and O Beattie. Modifications to the needle puncture technique in order to decrease measurement error.
- 2:30-2:45 Friedman SN, Nelson AJ, Granton PV, Wade AD, Holdsworth DW, Krasinski AM, Parraga GE, Chhem R, and IA Cunningham. Dual-energy computed tomography imaging of an Egyptian mummy.

- 2:45 – 3:15 *Coffee Break (Centre Ballroom Foyer) and Posters (East Ballroom Foyer)*
- 3:15-3:30 Ribot I and J Lettre. Preliminary results on Canadian Amerindian intra- and inter-population variation: comparison of two craniometrical approaches.
- 3:30-3:45 Schillaci MA and ME Schillaci. Estimating how well small samples represent the underlying population.
- 3:45-4:00 von Hunnius TE, Holdsworth D, Umoh JU, Santos AL, Saunders SR and CA Roberts  
New Dimensions to an old method: using micro-CT to navigate to areas of interest for bone histological observations.
- 14:00-4:15 Wade AD. Radiological assessment of age-related change in the trabecular structure of the human os pubis.
- 4:15-4:30 Willmon R. Morphological variation of the human thoracic spinous process.

### **East Ballroom (afternoon)**

#### **Session 8 Imperiled Lives: Infectious Disease among Infants and Children Symposium Organizer and Chair: Janet Padiak**

- 1:30-1:45 Introduction: Janet Padiak
- 1:45-2:00 \*Battles H. Patterns of diphtheria in Hamilton, Ontario in the early 20th century.
- 2:00-2:15 Burke S. Colonial contexts of infant mortality: St. Kitts in the early 20th century.
- 2:15-2:30 \*Hallman S. Babies and the Spanish Flu: forgotten victims or an untouched population?
- 2:30-2:45 Sawchuk L, Shin TA and KL Bogaert. Secular trends in infant mortality by SES in Gibraltar: 1887 – 1959.

#### *2:45 – 3:15 Coffee Break (Centre Ballroom Foyer) and Posters (East Ballroom Foyer)*

- 3:15-3:30 Swedlund AC A comparison of infant and early childhood mortality between immigrant and Yankee households in the Connecticut Valley, 1850-1910.
- 3:30-3:45 Walz L. Deconstructing a public health success story: the reduction of infant mortality in early 20th century Malta.
- 3:45-4:15 Discussion
- 4:15-4:30 *Poster take-down*
- 4:30-5:30 Business Meeting (*Centre Ballroom*)

#### **7:00-12:00 Banquet (East Ballroom) 7:00-7:30 Cash bar; 7:30 Buffet Dinner Keynote Speaker: Dr. David Waltner-Toews, Department of Population Medicine, Ontario Veterinary College, University of Guelph "Chicken, Sex and Salmonella"**

Eating is the most intimate relationship we have with the planet, both as individuals, and as a species; we begin our relationship with a French kiss the first time we eat, and grow through a lifetime of passions and obsessions that have literally reshaped the planet. Emerging diseases such as avian influenza and salmonella are the STDs of the food world, and the stories of their changing patterns tell us a great deal about how this relationship has changed over time. Dr. Waltner-Toews will explore some of these stories and what they are telling us.



## Saturday, November 8

- 8:00-9:00 Coffee, tea and juice (Centre Ballroom Foyer)  
8:00-12:00 Registration (East Ballroom Foyer)

### Centre Ballroom (morning)

**Session 9: Taphonomic Influences Affecting Skulls Found in a Modern Forensic Context Symposium**

**Organizers and Chairs: Steven Symes and Alexandra Klales**

- 8:30-8:45 Introduction: Steven Symes  
8:45-9:00 Daly ES. Taphonomic influences affecting skulls found in a modern forensic context: case review of prehistoric skulls.  
9:00-9:15 Mitchell D. Taphonomic influences affecting crania found in a forensic inquiry: case review of historic remains.  
9:15-9:30 Dzubak AR. Taphonomic influences affecting skulls found in a modern forensic context: case review of modern cases.  
9:30-9:45 Del Alamo A. Taphonomic influences affecting skulls found in a modern forensic context: case review of skulls exposed to surface elements.  
9:45-10:00 Vollner JM. Taphonomic influences affecting skulls found in a modern forensic context: case review of burial skulls.

10:00-10:30 *Coffee Break (Centre Ballroom Foyer) and Posters (East Ballroom Foyer)*

- 10:30-10:45 Nesbitt A. Taphonomic influences affecting skulls found in a modern forensic context: case review of water modification to human skulls.  
10:45-11:00 Klales AR. Taphonomic influences affecting skulls found in a modern forensic context: case review of anatomical specimens and trophy skulls

**Session 10: Ancient DNA in the Genomics Era: Possibilities and Potential Pitfalls**  
**Organizer and Chair: Hendrik Poinar**

- 11:00-11:15 Introduction: Hendrik Poinar  
11:15-11:30 DeBruyne R. What controls for the new era of high-throughput sequencing in ancient DNA?  
11:30- 11:45 Yang DY, Speller CF and U Arndt. Optimized silica-based spin column protocol for ancient DNA extraction.  
11:45-12:00 Bos KI, DeWitte SN and HN Poinar. Metagenomics and disease in past human populations.  
12:00-12:15 King C, DeBruyne R, Schwarz C, Kuch M and H Poinar Investigating Beringian paleoecology using DNA barcoding and metagenomics.

### East Ballroom (morning)

**Session 11: Health and Disease in Past Populations**

Chair: Tosha Dupras

- 9:00-9:15 Bathurst RR, Walker PL, Gjerdrum T, Richman R and VA Andrushko. Reappraising iron deficiency as a cause of porotic hyperostosis.  
9:15-9:30 \*Bernofsky K. Bioarchaeology and respiratory health.

- 9:30-9:45 Dupras T and L Williams. The oldest evidence of diabetes mellitus?
- 9:45-10:00 Glencross B and L Sawchuk . Work-related skeletal injury in 19<sup>th</sup> century Ontario.
- 10:00-10:30 *Coffee Break (Centre Ballroom Foyer) and Posters (East Ballroom Foyer)*
- 10:30-10:45 \*Highet MJ. Filling in the blanks: the use of qualitative data in detecting the presence of scurvy and smallpox during the Klondike gold rush, 1898-1904.
- 10:45-11:00 Liston MA. Developmental defects in infants from ancient Athens.
- 11:00-11:15 Maxwell J, White C, Nelson A, Holdsworth D and R Chhem. An analysis of cribra orbitalia in Maya skeletal materials using micro-computed tomography as an investigative tool.
- 11:15-11:30 \*Scott AB. An analysis of body size indicators and their use to examine sub-adult stress in a cold-adapted population.
- 11:30-11:45 Stark RJ. A radiographic investigation of juvenile scurvy in human remains from Stymphalos, Greece: preliminary results.
- 11:45-12:00 Toyne JM. Exploring the biocultural identity of the sacrificial victims from the Templo de la Piedra Sagrada, Túcume, Peru.
- 12:00-12:15 Discussion
- 12:15-12:30 *Closing comments and farewells*