Dr. Douglas Kneale welcomed all the students to the university of Windsor from himself and Dr. Alan Wildeman. After giving a very heartfelt description of the forensic science program at the university, Dr. Kneale gave credit to Dr. Shashi Jasra for the Conference. Finally, he wished that all the students will enjoy the conference.
Dr. Chris Houser, Dean, Faculty of Science, University of Windsor

Dr. Chris Houser started by showing his excitement over forensic sciences. Where he shared that this was not his area of study, he does get to aid in forensic science investigations. Moreover, he shows his pride of having forensic sciences finally in the science department. Finally, he encouraged students to enjoy their time at the University of Windsor.

Mr. Vincent Power, Deputy Chief, Windsor Police Services

Mr. Vincent Power thanked the University of Windsor for another invite to speak at this conference. He discussed the interactions between Windsor Police Services and the university as there are may students that do many practicum hours there. Mr. Power also gave a good insight on how important forensics is to the police.
It was again a pleasure to listen to Dr. Peter Frade, our international academic partner. He again emphasized the importance of the initiatives the two Universities share and stated we are in the process for more future collaborations.

Dr. Shashi Jasra welcomed all to the University of Windsor. She enthusiastically stated that University of Windsor Forensic Science Program is kind of leader in Canada as of now. She mentioned that forensics is not a study on its own but truly multidisciplinary field with applications of diverse areas of sciences and social sciences.
The TIFS Conference
Masters of Ceremony

Nadia Stephaniuk (left), President of the Forensic Association and Ourania Kourelias (right), Vice-President of the Forensic Association
Keynote Address

Dr. Francisco J. Diaz, MD FCAP, Wayne County Office of the Medical Examiner, Detroit, Michigan

Current Trends in Drug Related Deaths

Dr. Diaz’s Keynote address was an insightful look on current trends in deaths related to drug usage. To start, he gave relevant definitions and an overview of basic concepts including dosages and routes of exposure. Dr. Diaz then gave statistics showing that nearly one third of the deaths that Wayne County deals with are drug related. Nearing the end of the presentation, Dr. Diaz focused on a drug that is causing many accidental drug deaths, Fentanyl, and its analogs. Finally, the duties of on scene investigators were outlined and Dr. Francisco Diaz explained why no onsite testing is completed to test or identify powders.
Guest Presentations

Mark T. Evely, Mortuary Science Program Director, Wayne State University, B.S., J.D.
Expert Witness Testimony Skills in Court

Mr. Mark T. Evely in a very interesting manner discussed the expert witness testimony skills in court by using parts of the real-time videos. He shared an insightful look on body language, tone, and attitude as they relate to one’s testimony.

Lou Kramer, Pathologists’ Assistant Program Director, Wayne State University, B.A., B.S., M.A.
Overview of Neonaticides and Infanticides

Ms. Lou Kramer discussed the important topic of neonaticides and infanticides. She talked about the cases in news recently as well as the steps in the investigative processes.
Dr. Edward Rohn, Professor, Wayne State University, PhD
Trends in Forensic Anthropology

Dr. Edward Rohn discussed about the importance of bones in Forensic investigations. He also mentioned about the different tasks of Forensic Anthropology.

Dr. Ashwyn Rajagopalan, Professor, University of Toronto, M.D., F.R.C.P.C. (A.P./F.P.)
Forensic Pathology in Ontario

Dr. Ashwyn Rajagopalan discussed the multitude of hats that are worn by a forensic pathologist. This includes public health officer, radiographer, grief counsellor, medical expert, genetic counsellor, academic, or the typical pathologist given on TV programs. Dr. Rajagopalan went into detail about what is done on a day-to-day basis in this field.
Mrs. Stephanie Grabowski discussed her role in the Michigan State Police, as a Forensic Scientist. Mrs. Grabowski then discussed the divisions in Forensic Science, including fingerprinting, trace evidence, DNA, questioned documents, body fluid identification, fire arms and tool marks, controlled substances, crime scene investigation. She encouraged students to look at the possible internships in America.
To commence explaining her research, Ms. Ringrose talked about the types of burns and burn degrees. She then explained that this research is relevant to all aspects of forensic science (for individuals that are living and deceased). After completing this research, she could determine the relative length of exposure of the tissue to different temperatures.

**Jing Lei and Johannan Sala**  
*Identifying a Correlation Between Facial Expression, Heart Rate, and Skin Conductance with iMotions Biometric Platform*

Ms. Lei and Ms. Sala presented their joint research first starting with an explanation of how stimuli result in both voluntary and involuntary responses. They stated that the iMotions Biometric platform would allow the analysis of facial expressions, heart rate, and galvanic skin response effectively and is an promising tool in the Forensic fields in near future.
In the presentation completed by Georgina, she first started with an explanation of what Invivo5 is and what it can do. From CT scans, she could use the software to isolate the target area, in this case it was an anomaly in the scan, and determine the volume.

**Alex Kajtar**

*Detection of Environmental DNA (eDNA) Over Time from Decaying Chinook Salmon*

Mr. Alex Kajtar was clearly very passionate about his research project. He effectively detailed information about how the presence of a species affects the environmental DNA (eDNA). From this, he went farther to discuss how eDNA is detected after death and the affects of death on the integrity of DNA.
<table>
<thead>
<tr>
<th>Name(s) and Advisor(s)</th>
<th>Research Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stephanie Ringrose, Dr. Shashi Jasra, Dr. Pardeep Jasra and Tom Drake</td>
<td>Defining Exposure Time Using Burn Severity of Skin Tissue Under the Scanning Electron Microscope</td>
</tr>
<tr>
<td>Aya Chukr and Dr. Shashi Jasra</td>
<td>Voice Biometric Distinction Between English and Arabic using Sound Cleaner Filtering and SpeechPro SIS II Analysis</td>
</tr>
<tr>
<td>Michael Macphee and Dr. Pardeep Jasra</td>
<td>Evaluation of capabilities and limitations of the FARO Freestyle Scanner</td>
</tr>
<tr>
<td>Rachel Athoe and Dr. John Albanese</td>
<td>Analyses of various plasticine bite-mark impressions correlating to their respective dentition.</td>
</tr>
<tr>
<td>Dillon Foster and Dr. Shashi Jasra</td>
<td>Plant oils effect on false positives of the Duquenois-Levive Reagent</td>
</tr>
<tr>
<td>Shanelle Dalley and Dr. Pardeep Jasra</td>
<td>Visualization of Latent Fingerprints on Fruits and Vegetables Using Different powders</td>
</tr>
<tr>
<td>Rachel Lacoursiere and Dr. Sherah VanLaerhoven</td>
<td>Oviposition of Lucilia sericata because of changes to size of available medium</td>
</tr>
<tr>
<td>Michelle Dao and Dr. Pardeep Jasra</td>
<td>Trace Metal Analysis on Imported Spices</td>
</tr>
<tr>
<td>Georgina Abrego and Dr. Shashi Jasra</td>
<td>The effectiveness of using Invivo5 software to detect anomalies in CT scans of the human body</td>
</tr>
<tr>
<td>Alex Kajtar, Felicia Vincelli and Dr. Daniel Heath</td>
<td>Detection of Environmental DNA (eDNA) overtime from decaying Chinook Salmon</td>
</tr>
<tr>
<td>Marisa Willms, Sgt David DeLuca and Dr. Pardeep Jasra</td>
<td>X-Ray Powder Diffraction of Soil for Forensic Investigations</td>
</tr>
<tr>
<td>Name(s) and Affiliation(s)</td>
<td>Research Title</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Peter Truong and Dr. Pardeep Jasra</td>
<td>Latent Fingerprint Recovery from Canadian Polymer Banknote Submerged in Water.</td>
</tr>
<tr>
<td>Forrest Turner and Dr. Sherah Van Laerhoven</td>
<td>All Bundled Up: Testing Oviposition Delay of <em>Phormia regina</em> based on restriction methods</td>
</tr>
<tr>
<td>Brandon Fox, Sgt. David DeLuca, and Dr. Pardeep Jasra</td>
<td>The Effectiveness of Using Mini-Crime Scope® 400 and Chemical Treatment to Enhance the Quality of Fingerprint Impressions Deposited on Different Surfaces</td>
</tr>
<tr>
<td>Erin Pretli and Dr. Shashi Jasra</td>
<td>Analysis of Abnormal CT Scans Using Medical Imaging Software ‘Invivo5.4 Medical Design Suite’ by Anatomage</td>
</tr>
<tr>
<td>Ourania Kourelias and Dr. Pardeep Jasra</td>
<td>Visualization of Latent Fingerprints from Various Surfaces Submerged Underwater for Different Time Periods</td>
</tr>
<tr>
<td>Conner Mackinnon, Mark Lancaster, and Dr. Pardeep Jasra</td>
<td>Assessing differentiable microscopic characteristics between transfer and spatter bloodstain patterns on fabrics</td>
</tr>
<tr>
<td>Tania Mills, Dr. Pardeep Jasra and Dr. Shashi Jasra</td>
<td>Degradative Characteristics of Hair in Water Samples with Altered pH</td>
</tr>
<tr>
<td>Lindsay Nedelko and Dr. John Albanese</td>
<td>Are the physical anthropologists still using outdated concepts of race in research?</td>
</tr>
<tr>
<td>Nicole DesRosiers and Dr. Pardeep Jasra</td>
<td>Testing for Metals in Lipstick Samples Using ICP OES</td>
</tr>
<tr>
<td>Jing Lei and Johannan Sala</td>
<td>Identifying a Correlation Between Facial Expression and Skin Conductance and Heart Rate Using iMotions Biometric Software</td>
</tr>
</tbody>
</table>
Forensic Sciences Research Showcase
CSI-Windsor Workshops

Crime Scene #1

➤ 3D Footwear Impressions

➤ Forensic Entomology

➤ Trace Evidence and Microscopy

➤ Forensic Anthropology

➤ Firearms and Ballistics

➤ Forensic Photography

Crime Scene #2

➤ Forensic Document Analysis

➤ Bloodstain Pattern Analysis & Forensic Serology

➤ 2D Footwear Impressions

➤ Latent Fingerprint Analysis

➤ Forensics Emotions Biometric Analysis

➤ Forensic DNA Analysis
CSI-Windsor Workshops
Awards Ceremony

Research Poster Award Recipients:
1. First Prize: Alex Kajtar
2. Second Prize: Conner MacKinnon
3. Third Prize: Stephanie Ringrose

Dr. Pardeep Jasra, Forensic Faculty (Right) and Alex Kajtar (Left)

Conner McKinnon  Stephanie Ringrose
Best Mentor-Mentee Pair Award 2017 Recipients:

Aya El-Sabbagh -Mentor
Zara Vahidy-Mentee

(Left to right): Michelle Dao, Nicole DesRosiers, Aya El-Sabbagh,
Dr. Shashi Jasra