DIMENSIONS
2017

Forensic Sciences Year Book
Faculty of Sciences, University of Windsor

Student Credits:
Regan Pardo, Alicia DiCarlo, Lara Jamaleddine, Shelby Clark, Megan Natili, Diljot Bhathal, Aya El -Sabbagh, Ahmed Abdallah, Akida Akbar, Zara Vahidy
In This Yearbook

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  ➢ Dr. Chris Houser, Dean, Faculty of Sciences
  ➢ Dr. Shashi K. Jasra, Forensic Sciences Programs Chair

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Welcome Message

Dean, Faculty of Sciences

Welcome to the Forensic Sciences Program in the Faculty of Science!

I am excited to have joined the Faculty of Science and the University of Windsor. The Forensic Sciences program has grown substantially over the last couple of years and continues to be successful in securing external grants to provide you with the latest equipment and software. This is the top Forensic Sciences program in Ontario, and one of the leading programs in all of Canada.

Science at Windsor has a faculty to student ratio of 1:15, while most other science programs in Ontario have 1 faculty member for more than 24 students. This means that we can provide our students with better support and opportunities to engage in authentic, career-relevant experiences that promote Leadership, Engagement, Application and Discovery, and students are able to escape the classroom through credit-
bearing internships, co-ops, study abroad, service learning and undergraduate research experiences. Be intentional about becoming a **LEAD Medallion Scholar**, by participating in high impact learning experiences through Science at Windsor.

The Forensic Science program will provide you with many opportunities to participate in the high impact experiences, greater access to your professors, and unprecedented opportunities to participate in undergraduate research. You will also have an opportunity to gain real-world experience through hands-on lab experiences, the CSI- Windsor workshops, the Mentorship Program the Annual Trends in Forensic Sciences (TIFS) conference, and a capstone research experience involving professionals from outside organizations including the police.

This is truly an exciting time to be part of the Forensic Sciences program and the Faculty of Science at the University of Windsor.

Dr. Chris Houser
Dean of Science
Professor, Department of Earth, and Environmental Sciences
Welcome to all current and potential students interested in pursuing a Forensic Sciences degree. We are very excited with the many new developments this academic year. The Forensic programs are adding new mock crime scene condo and investigation laboratory, Forensics Innovation Research Lab as well as Advance Forensic Sciences courses to keep up with the diversity of the Forensic Sciences fields.

The Forensic Sciences is also proud to have incorporated new technologies in the programs. These exciting resources and opportunities are available for our students for Forensic Sciences placements and research:

- Medical Design Suite for Forensic Medicine research
- Video Spectral Comparatot for high profile document analysis
- CSI-Pix Matcher for Computerized fingerprint analysis
- FARO- Reality Crime Scene Reconstruction
- FARO 3-D Laser Scanner fro Crime Scene Investigation
- Speech pro Voice Analysis
- i-Motions Biometrics Research Platform
The Forensic Sciences students at University of Windsor have the privilege to use all these high-profile equipment and software to help them develop the skills for a bright successful Future career. We all are very proud to say that seven Forensic Sciences research projects have been accepted for presentations in the prestigious International Association of Forensic Sciences (IAFS) Conference for 2017.

The Forensic Sciences at University of Windsor continue to have a successful mentorship program with an annual Best Mentor-Mentee pair award. We received an overwhelming response from students to participate as mentors. The dedicated blackboard website helps a lot for better communication and access to uploaded resources. Monthly meetings are organized for all the members to update and guide them on various academic issues. All the members are working enthusiastically to make this program successful.

We just had a very successful 4th annual conference Trends in Forensic Sciences Conference on 7th April 2017: www.uwindsor.ca/tifs. This is the only University sponsored Forensic Sciences conference in Canada.

The Forensic Sciences programs at University of Windsor gives the students the option to tailor the degree as per their future goals and choose diverse careers in their own area/subject of specialization.

We have successfully launched the University of Windsor, online open access Journal of Emerging Forensic Sciences Research http://ojs.uwindsor.ca/ojs/leddy/index.php/JEFSR. Every year the journal releases two issues – in June and December to keep updated with the ongoing Forensic Sciences research.

Two new advanced Forensic Sciences courses developed by the Ontario Ministry grant are to be offered soon:

- Bioterrorism ,Food and Environment Forensics
- Forensic Medicine: Toxins and Pathology

Don’t forget to visit our Facebook, twitter, and Instagram pages to get regular updates
Forensics@uwindsor https://www.facebook.com/forensicsatuniversityofwindsor
https://twitter.com/forensicuwindsor

I am waiting eagerly to meet you all in person and continue working for the progress of all Forensic Sciences students

Shashi K. Jasra, M.Phil., Ph.D.
Programs Chair, Forensic Sciences
Email: sjasra@uwindsor.ca
Website: www.uwindsor.ca/forensics
Mentorship in Forensic Sciences

- Website in Blackboard to communicate better
- Mentors-Mentee Groups
- Monthly Academic Counseling Workshops/Meetings
- Mentors are upper year Forensics students
- Each Mentee has at least one Mentor
- No Cost to participate in this program
- Best Annual Mentor-Mentee Award

For more information:
Email: Dr. Pardeep Jasra (pardeepj@uwindsor.ca)
Dr. Shashi K. Jasra (sjasra@uwindsor.ca)
Mentorship in Forensic Sciences

Best Mentor-Mentee Award

- Monthly Peer Logs
- Participation
- Pop Quizes

The Best Mentor-Mentee Award Recipients for 2016-17 are:

Aya El-Sabbagh - Mentor
Zara Vahidy - Mentee

For more information:
Email: Dr. Shashi Jasra (sjasra@uwindsor.ca)
Best Mentor – Mentee Award 2016-2017
Recipients at the Annual Awards Ceremony

First Picture (Left to right): Michelle Dao (Mentorship Student Coordinator), Nicole DesRosiers (Mentorship Student Coordinator), Aya El-Sabbagh, Dr. Shashi Jasra

Best Mentor and Mentee: Aya El-Sabbagh and Zara Vahidy
Student Name: ________________________________  Student I.D. #: ____________________

**Bachelor of Forensic Science (Honours)**  
*(40 Courses) (2017-2018)*

1. **Major Requirements (27 Courses)**

### Faculty of Science:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>55-140</td>
<td>Biological diversity</td>
<td>55-141</td>
<td>Cell biology</td>
<td>64-130</td>
<td>Physics for Life Sciences1</td>
</tr>
<tr>
<td>59-140</td>
<td>General Chemistry I</td>
<td>59-141</td>
<td>General Chemistry II</td>
<td>59-230</td>
<td>Introductory Organic Chemistry</td>
</tr>
<tr>
<td>62-140</td>
<td>Differential Calculus Or 03-62-139 Functions and</td>
<td>65-205</td>
<td>Statistics for the Sciences</td>
<td>64-131</td>
<td>Physics for Life Sciences 2</td>
</tr>
<tr>
<td>Differential Calculus</td>
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### Forensic Sciences:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>57-110</td>
<td>Introductory Crime scene investigation</td>
<td>57-201</td>
<td>Introduction to Forensic Sciences</td>
<td>57-210</td>
<td>Crime Scene Evidence Analysis</td>
</tr>
<tr>
<td>57-302</td>
<td>Expert Witness Testimony in Court</td>
<td>57-303</td>
<td>Forensic Identification</td>
<td>57-313</td>
<td>Digital Forensic Photography</td>
</tr>
<tr>
<td>57-401</td>
<td>Practicum in Forensic Sciences</td>
<td>57-402</td>
<td>Research in Forensic Sciences</td>
<td>Any Two of the Following:</td>
<td></td>
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<tr>
<td></td>
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<td>57-304</td>
<td>(Insect Evidence)</td>
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<td>57-410</td>
<td>(New Perspectives in Forensic Evidence Analysis)</td>
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<td></td>
<td></td>
<td>57-411</td>
<td>(Advances in Human Identification)</td>
</tr>
</tbody>
</table>

### Faculty of Arts & Social Sciences:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>48-110</td>
<td>Foundations of Social Life</td>
<td>48-260</td>
<td>Introduction to criminology</td>
<td>01-209</td>
<td>Ethics in the Professions</td>
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</table>

And ONE of the four from following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>43-287</td>
<td>History of Crime</td>
<td>48-262</td>
<td>Introduction to Criminal Justice</td>
<td>34-160</td>
<td>Reasoning Skills</td>
</tr>
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</tbody>
</table>

### Faculty of Law

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>08-99-219</td>
<td>Law of Evidence in Forensics (Law)</td>
</tr>
</tbody>
</table>
2. **Other Requirements**

Ten additional courses from one of the three following areas of concentration: Molecular Biology/Biochemistry; or Biology; or Chemistry.

**At least six must be at the 300 level or above (55-xxx; 59-xxx; 57-xxx.)** The area of concentration must be declared prior to entry of 2nd year studies.

<table>
<thead>
<tr>
<th>Molecular Biology/Biochemistry</th>
<th>Biology</th>
<th>Chemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td><strong>Required Courses</strong></td>
<td><strong>Required Courses</strong></td>
</tr>
<tr>
<td>55-202 Human Anatomy</td>
<td>55-210 Ecology</td>
<td>59-240 Intro Physical Chem I</td>
</tr>
<tr>
<td>55-211 Genetics</td>
<td>55-211 Genetics</td>
<td>59-241 Intro Physical Chem II</td>
</tr>
<tr>
<td>59-320 Analytical Chemistry</td>
<td>55-325 Community Ecology</td>
<td>59-251 Intro Inorganic Chem II</td>
</tr>
<tr>
<td>59-321 Instrumental Analysis</td>
<td>55-341 Evolution</td>
<td>59-320 Analytical Chemistry</td>
</tr>
<tr>
<td></td>
<td>55-359 Invertebrate Biology (55-213 is a prerequisite)</td>
<td>59-321 Instrumental Analysis</td>
</tr>
<tr>
<td><em>Additional FIVE from 55-xxx, 57-xxx, 59-xxx</em></td>
<td><em>Additional FOUR from 55-xxx, 57-xxx, 59-xxx</em></td>
<td><em>Additional FOUR from 55-xxx, 57-xxx, 59-xxx</em></td>
</tr>
</tbody>
</table>

3. **Open Options (3 courses from any area of study)**

<p>| | | |</p>
<table>
<thead>
<tr>
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<tbody>
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</tr>
</tbody>
</table>
## Combined B.A. in Forensics
### (40 Courses) (2017-2018)

### 1. Major Requirements (20 Courses)

<table>
<thead>
<tr>
<th>Faculty of Science:</th>
<th>OR</th>
<th>Faculty of Arts, Humanities, and Social Sciences:</th>
</tr>
</thead>
<tbody>
<tr>
<td>55-141 Cell Biology</td>
<td></td>
<td>65-205 Stats for the Sciences</td>
</tr>
<tr>
<td>55-140 Biological Diversity</td>
<td></td>
<td>OR 02-250 Basic Quantitative Methods in the Social Sciences</td>
</tr>
<tr>
<td>62-130 Elements of Calculus</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### One of the following:

#### Forensic Sciences

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>57-110</td>
<td>Introductory Crime Scene investigation</td>
</tr>
<tr>
<td>57-201</td>
<td>Introduction to Forensic Science</td>
</tr>
<tr>
<td>57-210</td>
<td>Crime Scene Evidence Analysis</td>
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<tr>
<td>57-302</td>
<td>Expert Witness Testimony in Court</td>
</tr>
<tr>
<td>57-303</td>
<td>Forensic Identification</td>
</tr>
<tr>
<td>57-313</td>
<td>Forensic Digital Photography</td>
</tr>
<tr>
<td>57-400</td>
<td>Theory and Practice in Forensic Sciences</td>
</tr>
</tbody>
</table>

### Any Two of the Following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>57-304</td>
<td>(Insect Evidence) - 03-55-210 (Ecology is prerequisite)</td>
</tr>
<tr>
<td>57-410</td>
<td>(New Perspectives in Forensic Evidence Analysis)</td>
</tr>
<tr>
<td>57-411</td>
<td>(Advances in Human Identification)</td>
</tr>
</tbody>
</table>

#### Faculty of Arts, Humanities & Social Sciences:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>48-110</td>
<td>Foundations of Social Life</td>
</tr>
<tr>
<td>48-215</td>
<td>Principles of Physical Anthropology</td>
</tr>
<tr>
<td>01-01-209</td>
<td>Ethics in the Professions</td>
</tr>
<tr>
<td>01-34-226</td>
<td>Law, Punishment, and Morality or 02-43-287 History of crime</td>
</tr>
<tr>
<td>48-260</td>
<td>Introduction to criminology</td>
</tr>
<tr>
<td>48-323</td>
<td>Forensic Anthropology</td>
</tr>
</tbody>
</table>

#### Faculty of Law:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>08-99-219</td>
<td>Forensic Evidence and the Canadian Legal System (Law)</td>
</tr>
</tbody>
</table>
2. Second Major and Other Requirements (20 Courses)

*Second Major requirements* - other subjects in Arts, Humanities, or Social Sciences:

as required by that area of study.

*Other requirements: additional options (if required) to a total of forty courses.*

When a requirement in the combined Forensics program is also required as part of the course requirements for the other combined major, another course must be selected and substituted into the combined Forensics course requirements with the approval of the Forensic Program Chair, Centre for Inter-Faculty Programs".
New Forensic Sciences Courses

Coming Soon!!

➢ 57-480: Forensic Medicine: Toxins and Pathology

➢ 57-482: Bioterrorism, Food and Environmental Forensics
Bachelor of Forensic Science
Recommended Course Sequencing

Year 1 (Fall)
1. 57-110 Introductory Crime Scene Investigation
2. 55-141 Cell Biology with Lab
3. 59-140 General Chemistry with Lab
4. Any one of the following:
   - 62-139 or 140 Functions and Differential Calculus with lab
5. Open Option as per degree audit

Year 1 (Winter)
1. 57-201-01 Introduction to Forensic Sciences with Workshop lab
2. 55-140 Biological Diversity with Lab
3. 59-141 General Chemistry II with lab
4. 48-110 Foundations of Social Life
5. Any one of the following:
   - 34-160 Reasoning skills / 43-287 History of crime / 24-210 Speech Communication or
   - Open option as per degree audit

Year 2 (Fall)
1. 57-210 Crime Scene Evidence Analysis
2. 55-211 Genetics with lab
3. 59-230 Introductory Organic Chemistry with lab
4. Any two of the following:
   - 48-260 Introduction to Criminology
   - 01-209 Ethics in Profession
   - 64-130 Physics for Life Science I with lab
   - as per degree audit

Year 2 (Winter)
1. 55-213 Intro Molecular Biology with Lab
2. 59-261 Organic Chemistry of Biomolecules with Lab
3. Any three of the following:
   - 64-131 Physics for Life Science II with lab
   - More courses as per degree audit

Year 2 (Summer) Two-week course – Last week of April and First week of May
1. 57-303 Forensic Identification
Bachelor of Forensic Science
Recommended Course Sequencing

Year 3 (Fall)
1. 57-301 Laboratory in Forensic Sciences
2. 57-302 Expert Witness Testimony in Court
3. 08-99-219 Law of Evidence in Forensics
4. More courses as per degree audit

Year 3 (Winter)
1. 57-313 Forensic Digital Photography
2. 57-411 Advances in Human Identification
3. More courses as per degree audit

Year 3 /4 (Summer, Fall)
1. 57-401 Practicum in Forensic Sciences. You may complete the hours any time during the year.

Year 4 (Fall)
1. 57-400 Theory and Practice in Forensic Sciences
2. 57-410 New Perspectives in Forensic Evidence Analysis
3. More courses as per degree audit

Year 4 (Winter)
1. 57-401 Practicum in Forensic Sciences
2. 57-402 Research in Forensic Sciences
3. More courses as per degree audit to complete requirements for graduating

For More Information and updates:
sjasra@uwindsor.ca/
or
forensics@uwindsor.ca
## Forensic Sciences Research Projects 2016-2017

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stephanie Ringrose, Dr.</td>
<td>Defining Exposure Time Using Burn Severity of Skin Tissue Under the Scanning Electron Microscope</td>
</tr>
<tr>
<td>Shashi Jasra, Dr. Pardeep</td>
<td></td>
</tr>
<tr>
<td>Drake</td>
<td></td>
</tr>
<tr>
<td>Aya Chukr and Dr. Shashi</td>
<td>Voice Biometric Distinction Between English and Arabic using Sound Cleaner Filtering and SpeechPro</td>
</tr>
<tr>
<td>Jasra</td>
<td>SIS II Analysis</td>
</tr>
<tr>
<td>Michael Macphee and Dr.</td>
<td>Evaluation of capabilities and limitations of the FARO Freestyle Scanner</td>
</tr>
<tr>
<td>Pardeep Jasra</td>
<td></td>
</tr>
<tr>
<td>Rachel Athoe and Dr.</td>
<td>Analyses of various plasticine bite-mark impressions correlating to their respective dentition.</td>
</tr>
<tr>
<td>John Albanese</td>
<td></td>
</tr>
<tr>
<td>Dillon Foster and Dr.</td>
<td>Plant oils effect on false positives of the Duquenois-Levive Reagent</td>
</tr>
<tr>
<td>Shashi Jasra</td>
<td></td>
</tr>
<tr>
<td>Shanelle Dalley and Dr.</td>
<td>Visualization of Latent Fingerprints on Fruits and Vegetables Using Different powders</td>
</tr>
<tr>
<td>Pardeep Jasra</td>
<td></td>
</tr>
<tr>
<td>Rachel Lacoursiere and Dr.</td>
<td>Oviposition of Lucilia sericata because of changes to size of available medium</td>
</tr>
<tr>
<td>Sherah VanLaerhoven</td>
<td></td>
</tr>
<tr>
<td>Michelle Dao and Dr.</td>
<td>Trace Metal Analysis on Imported Spices</td>
</tr>
<tr>
<td>Pardeep Jasra</td>
<td></td>
</tr>
<tr>
<td>Georgina Abrego and Dr.</td>
<td>The effectiveness of using Invivo5 software to detect anomalies in CT scans of the human body</td>
</tr>
<tr>
<td>Shashi Jasra</td>
<td></td>
</tr>
<tr>
<td>Alex Kajtar, Felicia</td>
<td>Detection of Environmental DNA (eDNA) overtime from decaying Chinook Salmon</td>
</tr>
<tr>
<td>Vincelli and Dr. Daniel</td>
<td></td>
</tr>
<tr>
<td>Heath</td>
<td></td>
</tr>
<tr>
<td>Marisa Willms, Sgt David</td>
<td>X-Ray Powder Diffraction of Soil for Forensic Investigations</td>
</tr>
<tr>
<td>DeLuca, Shashi Jasra and</td>
<td></td>
</tr>
<tr>
<td>Dr. Pardeep Jasra</td>
<td></td>
</tr>
<tr>
<td>Name and Affiliation</td>
<td>Project Title</td>
</tr>
<tr>
<td>----------------------</td>
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</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>
Best Forensic Sciences Student Research Awards

Research Poster Award Recipients 2016-17:

1. **First Prize: Alex Kajtar**

2. **Second Prize: Conner MacKinnon**

3. **Third Prize: Stephanie Ringrose**

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

Conner McKinnon

Stephanie Ringrose
Forensic Sciences Practicum placements

➢ Windsor Regional Hospital, Pathology Department

➢ Windsor Police Services, Forensic Identification Unit

➢ Chatham Police Services

➢ Toronto Police Services

➢ RCMP

➢ Ontario Provincial Police, Chatham
Forensic Sciences Practicum placements

➢ Forensic Sciences Laboratory, University of Windsor

➢ Center for Forensic Sciences, Toronto

➢ GLIER, University of Windsor

➢ Biology Department, University of Windsor

➢ Biochemistry and Chemistry Department, University of Windsor

➢ Department of Pathology and Laboratory Medicine, Western Ontario University
4TH ANNUAL
TRENDS IN
FORENSIC SCIENCES
CONFERENCE

FRIDAY, APRIL 7, 2017
Ambassador Auditorium
University of Windsor

Forensic Professional Guest Speakers
Forensic Sciences Research Showcase
CSI-Windsor (Hands-on) Workshops
Mock Crime Scene Investigation

LOTS OF PRIZES

University of Windsor
forensic@uwindsor.ca
EugeneAlekhno
College of Pharmacy and Health Sciences

For more information and online registration www.uwindsor.ca/tifs
Trends in Forensic Sciences (TIFS-17) Conference
Welcome Address

Dr. Douglas Kneale, Provost and Vice-President, Academic,
University of Windsor

Dr. Chris Houser, Dean, Faculty of Science, University of Windsor
TIFS-17: Welcome Address

Mr. Vincent Power, Deputy Chief, Windsor Police Services

Dr. Peter Frade, Director, Forensic Sciences, Interim Associate Dean, Health Sciences Wayne State University

Dr. Shashi K. Jasra, Program Chair, Forensic Sciences welcoming all at TIFS-2017
Trends in Forensic Sciences (TIFS-17) Conference

Keynote Address

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

TIFS-17 Committed Audience
Trends in Forensic Sciences (TIFS-17) Conference

Guest Speakers

Mark T. Evely, B.S., J.D. – Expert Witness Testimony Skills in Court

Prof. Lou Mendes-Kramer, M.A., PS(ASCP) – Overview of Neonaticides and Infanticides

Dr. Edward Rohn, PhD – Trends in Forensic Anthropology
Trends in Forensic Sciences (TIFS-17) Conference

Guest Speakers

Dr. Ashywn Rajagopalan, M.D., F.R.C.P.C.(A.P./F.P.) – Forensic Pathology in Ontario

Mrs. Stephanie Grabowski – Forensic Science Division in Policing
Forensic Sciences Student Speakers at TIFS-17

Alex Kajtar
Georgina Abrego

Jing Lei and Johannan Sala
Stephanie Ringrose
Forensics Research Showcase at the TIFS-17
TIFS-17: 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
TIFS-17: CSI-Windsor Workshops
TIFS-17 Photo booth!
The Effectiveness of Using Volume Render from the Software Invivo5 to Detect Anomalies in CT Scans of the Human Body

Georgina Abrego and Dr. Shashi Jasra, Faculty of Science: Forensic Science Programs, University of Windsor

The Visualization of Latent Fingerprints on Fruits and Vegetables

Shanelle Dalley and Pardeep K. Jasra, University of Windsor, Faculty of Science: Forensic Sciences

Voice Biometrics Distinction Between English and Arabic Using Sound Cleaner Filtering and Speech-Pro SIS II Analysis

Aya Chukr and Shashi Jasra, M. Phil, Ph. D, Forensic Sciences, University of Windsor

Latent Fingerprint Recovery from Canadian Polymer Banknote Submerged in Water

Peter Truong and Dr. Pardeep Jasra, University of Windsor, Faculty of Science: Forensic Sciences Program
Defining Exposure Time Using Burn Severity of Skin Tissue Under the Scanning Electron Microscope

Stephanie Ringrose, Shashi Kiran Jasra, Pardeep Kumar Jasra and Thomas Drake, Forensic Sciences programs University of Windsor, Great Lakes Institute for Environmental Research, Windsor

Identifying Correlation Between Facial Expression and Heart Rate and Skin Conductance With i-Motions Biometric Platform

Jing Lei, Johannan Sala, and Dr. Shashi Jasra, University of Windsor, Faculty of Science: Forensic Sciences

Analysis of Abnormal CT Scans Using Medical Imaging Software ‘Invivo5.4 Medical Design Suite’ by Anatomage

Erin Pretli and Dr. Shashi Jasra, University of Windsor, Faculty of Science: Forensic Science
The Faculty of Sciences Dean, Dr. Chris Houser encourages research by giving up to $500 for presentation of the research at a conference.

The three Forensic Sciences students who are presenting the research at IAFS-2017 have been awarded for 2016-17:

1. Georgina Abrego
2. Peter Truong
3. Shanelle Dalley

¹ Faculty of Science; Forensic Sciences Programs, University of Windsor, Windsor, Ontario, Canada
² Windsor Police Station, Windsor, Ontario, Canada

Estimation of Firing Distance by Analysis of Gunshot Residue patterns using an Alternate Light Source with Validation using SEM, Cheryl Lawson ¹, Mark Lancaster ², Shashi Jasra ¹ and Pardeep Jasra ¹–Bilingual; *Identification Canada, Volume 39, No 3, September 2016*

¹ Faculty of Sciences, Forensic Sciences Programs, University of Windsor
² Ontario Provincial Police – Forensic Identification Unit

The Journal of Emerging Forensic Sciences Research (JEFSR) is committed to original research in the diverse disciplines of Forensic Sciences. JEFSR publishes one volume annually with two issues each year, June, and December. Each issue includes novel Research papers, Forensic case studies and reports and technical notes papers highlighting the newer and ever emerging fields of Forensic Sciences. The Proceedings of the Annual Trends in Forensic Sciences (TIFS) Conference are published in the June issue.

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Forensics: Learn & Fun
Outreach Activities
CSI-Windsor Workshops
Outreach Activities: For Seniors
CSI-Windsor Workshops
Forensics: Volunteers Modelling New Shirts
When entering my pursuit for my undergraduate degree, I entered the University of Windsor with a major in Chemistry. I had always been interested in working in a lab setting, and with no prior knowledge of the Forensic Science program, I thought this was a good place to start. Where I was not wrong, it wasn’t until my very first class with Dr. Jasra that I realized that I was not in the right program for me. As the semester finished, I decided to break the news that I was going to be changing my program to Forensic Sciences to my parents. Dr. Shashi Jasra’s lectures showed me that Forensic Science is not a study on its own; rather that it is the application of studies. This allowed me to tailor my degree to my needs for Forensic Chemistry.

After making this life altering change I am proud to say I am an Alumni of the Forensic Sciences Program. However, this program is not all books. I could have a lot of fun with various activities and volunteer opportunities. The Forensic Science programs at the University of Windsor have their own mentorship program, in which I could assist two first year students in their transition to all the demands of the university lifestyle. Moreover, I could be apart of the team making the Trends in Forensic Sciences Conference (TIFS) of 2016 come to fruition as well as being a student coordinator of TIFS 2017.

I got the delight of being able to work with Dr. Shashi Jasra as an upper year student being a teaching assistant for two of her classes. This allowed me to practice teaching skills and allowed me to see how much I have learned in my years at the University of Windsor. I once more got to work beside Dr. Jasra in completing...
my research, A Qualitative Evaluation of the Effects Cleaning Products Have on the Bluestar Test for Latent Blood, which was featured in the Journal of Emerging Forensic Sciences Research (JEFSR).

My Involvement with the Forensic Sciences program has not concluded at graduation either. I was asked to be involved in editing the second volume of JEFSR, and requested to write the proceedings for the TIFS 2017 Conference. Moreover, I was requested to layout this Dimensions 2017 News Letter.

In the coming year, I will be going back to school to complete the MSc. Forensic Science program at the University of Strathclyde in Glasgow, Scotland. I am extremely grateful to Dr. Shashi Jasra and the department of Forensic Science at the University of Windsor. If I had to do this over, I would do it all again.

“Learning is a treasure, which accompanies its owner everywhere.” - Chinese Proverb

Alicia DiCarlo
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THE FIFTH ANNUAL TRENDS IN FORENSIC SCIENCES (TIFS -18) CONFERENCE IS SCHEDULED FOR FRIDAY, 6TH APRIL 2018