This year’s theme is SIMULATION & GAMIFICATION, with a focus on applying gaming principles to improve simulation, as well as virtual patients, virtual reality, augmented reality, and e-simulations to enhance learning.

MESSAGE FROM THE DIRECTOR OF EDUCATION & COMMUNITY ENGAGEMENT

Dear Guests,

On behalf of SIM-one and the Canadian Network for Simulation in Healthcare (CNSH), thank you for being part of the 2017 SIM Expo!

This has been an exciting year for simulation in Canada, with the integration of SIM-one and CNSH, creating a truly integrated, interdisciplinary, member-based organization. At Expo this year, we welcome a greater diversity of participants than ever, with simulationists coming from across Canada. This is an honour for us, as it’s great to see our community growing—the more people contributing to and advancing simulation in Canada, the better!

This year’s theme is SIMULATION & GAMIFICATION, with a focus on applying gaming principles to improve simulation, as well as on virtual patients, virtual reality, augmented reality, and e-simulations to enhance learning.

Our team has been preparing an immersive Expo experience that includes networking opportunities, our annual simulation awards ceremony, Simulation-in-Action, virtual showcase, simulation workshops, and our poster crawl. In response to requests to increase the academic content at Expo, we are pleased to introduce research presentation sessions this year.

We are honoured to welcome our keynote speakers: Dr. Dan Raemer, from the Center for Medical Simulation at Harvard University, and founding trustee and Past-President of the Society for Simulation in Healthcare. Dr. Raemer has recently co-founded the Foundation for Healthcare Simulation Safety, drawing attention to inadvertent risks simulation programs may pose to real patients, and strategies to minimize risks.

We are also excited to welcome Dr. Bill Kapralos, Associate Professor at the University of Ontario Institute of Technology, one of Canada’s leading researchers on serious gaming, and a long-standing champion in our simulation community.

Be sure to visit the many exhibitors who have come to SIM Expo to showcase their newest simulation equipment, products and programs.

This annual conference would not be possible without the dedication and work put forward by the SIM-one/CNSH team and the support from our Board of Directors. Please join me in thanking them for making SIM Expo possible.

I encourage you to explore the many workshops, events and exhibitors at the 2017 SIM Expo and I challenge you to meet someone new. It’s a challenge I will take on as I hope to connect with as many of you as possible.

Welcome to Expo!

Sincerely,

Sara Budd
Director of Education and Community Engagement
SIM-one / CNSH

MESSAGE DE LA DIRECTRICE DE L’ÉDUCATION ET DE L’ENGAGEMENT COMMUNAUTAIRE

Chers invités,

Au nom de SIM-one et du Réseau Canadien pour la Simulation en Soins de santé (RCSS), je vous remercie de participer au SIM Expo 2017!

Cette année a été une année excitante pour la simulation au Canada suite à l’intégration de SIM-one et du RCSS, créant une organisation véritablement intégrée, interprofessionnelle et basée sur les membres. Lors de l’expo de cette année, nous accueillerons une plus grande diversité de participants incluant des simulationnistes venant de partout au Canada. C’est un honneur pour nous et un réel plaisir de constater la croissance de notre communauté: plus il y aura de gens qui contribueront à la simulation au Canada, mieux ce sera!

Dans le but d’améliorer l’apprentissage par simulation, le thème de cette année est SIMULATION ET LUDIFICATION, avec une attention particulière sur l’application des principes du jeu ainsi que sur les patients virtuels, la réalité virtuelle, l’augmentation du réalisme et les simulations électroniques.

Notre équipe est à vos côtés pour préparer un Expo qui vous fera vivre une expérience immersive comprenant des opportunités de réseautage, notre cérémonie annuelle de récompenses en simulation, la simulation en action, une vitrine virtuelle, des ateliers de simulation et la présentation d’ateliers. Cette année, en réponse aux demandes d’accroître le contenu académique à l’expo, nous sommes heureux d’introduire des sessions de présentations de recherche.

C’est un honneur pour nous d’accueillir nos conferenciers principaux: Dr Dan Raemer, du Centre de simulation médicale de l’Université Harvard et administrateur fondateur et président sortant de la Society for Simulation in Healthcare. Dr Raemer a récemment cofondé la Fondation pour la sécurité de la simulation en soins de santé, attirant ainsi l’attention sur les risques que les programmes de simulation peuvent poser par inadvertance aux vrais patients et sur les stratégies visant à minimiser ces risques.

Nous avons aussi le plaisir d’accueillir Dr Bill Kapralos, professeur agrégé à l’Université d’Ontario Institute of Technology. Il est l’un des principaux chercheurs canadiens en jeux vidéo sérieux et un champion de longue date de notre communauté de simulation.

Assurez-vous de visiter les nombreux exposants qui viendront au SIM Expo vous présenter leurs nouveaux équipements, produits et programmes de simulation.

Cette conférence annuelle ne serait pas possible sans le dévouement et le travail de l’équipe de SIM-one / RCSS et le soutien de notre conseil d’administration. Veuillez-vous joindre à moi pour les remercier d’avoir rendu possible le SIM Expo.

Je vous encourage à explorer les nombreux ateliers, événements et exposants au SIM Expo 2017 et je vous mets au défi de faire au moins une nouvelle rencontre. C’est un défi que je vais accepter car j’espère avoir la chance de communiquer avec chacun d’entre vous.

Bienvenue au SIM Expo!

Cordialement,

Sara Budd
Directrice de l’éducation et de l’engagement communautaire SIM-one / RCSS
DAY 1 AGENDA
NOVEMBER 30  8:00am–6:00pm

8:00am–8:30am  Breakfast & Registration

8:30am–8:45am  Welcome & Day 1 Orientation — Timothy Willett MD, MMEd, President & CEO, SIM-one | CNSH

8:45am–9:45am  Keynote Speaker — Bill Kapralos PhD

9:45am–10:45am  Poster & Video Crawl

10:45am–11:45am  Exhibit Hall — Explore the 2017 SIM Expo! | Coffee Break

11:45am–12:45pm  Lunch | SIM Feud

12:45pm–2:15pm  Simulation-in-Action

2:15pm–2:30pm  Break | Networking

2:30pm–4:30pm  Virtual Simulation Showcase

4:30pm–6:00pm  Industry-Sponsored Reception | Simulation Awards

DAY 2 AGENDA
DECEMBER 1  8:30am–4:00pm

8:30am–9:00am  Breakfast & Day 2 Registration

9:00am–9:15am  Welcome & Day 2 Orientation — Timothy Willett MD, MMEd, President & CEO, SIM-one | CNSH

9:15am–10:45am  Morning Workshops — 40 & 90 mins Workshops
  AM1  40 min  Staying in the Game: Using In Situ Simulation to Bring Out the Best in Staff-Family Interactions   AND  40 min  Practice Like You Play! An Overview of Simulation-Based Mastery Learning in Health Professions Education  Pegasus A
  AM2  90 min  Virtual Reality Simulators for Skills Training: Using Them to the Max  Pegasus B
  AM3  90 min  Designing SIM for Interprofessionalism, Diversity and Inclusivity  Phoenix A
  AM4  90 min  No Health Without Mental Health: Designing Interprofessional Mental Health Scenarios for Simulation Training  Phoenix C
  AM5  90 min  INACSL’s Revised Standards of Best Practice: Simulation  Phoenix C

10:45am–11:00am  Break | Networking

11:00am–12:00pm  Research Presentations  See pg. 14 for locations

12:00pm–12:30pm  Ask the Experts | Special Interests | Exhibit Hall  See pg. 15 for locations

12:30pm–1:30pm  Lunch | Keynote Speaker — Dan Raemer PhD

1:30pm–2:00pm  Exhibit Hall

2:00pm–3:30pm  Afternoon Workshops — 40 & 90 mins Workshops
  PM1  40 min  Training Scars: How We Are Creating Errors Through Simulation  AND  40 min  Maximizing Simulation for Purpose Built Experiences  Pegasus A
  PM2  90 min  Is There a Valid Tool in Simulation or do I Need to Develop One to Assess Competency of My Trainee?  Phoenix A
  PM3  90 min  Simulation for Workspace and Process Assessments  Phoenix B
  PM4  90 min  Prove the Value & Measure the Return on Investment of Simulation Training  Phoenix C
  PM5  90 min  Developing Serious Virtual Games to be Used as Pre-Simulation Preparation Within Healthcare Education  Pegasus B

3:30pm–4:00pm  2017 SIM Expo Final Reflections | Abstract Awards | Who busted SimMan?
KEYNOTE

BILL KAPRALOS PhD
Associate Professor, University of Ontario Institute of Technology

Immersive technologies, gamification and serious games for healthcare education

Bill Kapralos is an Associate Professor at the University of Ontario Institute of Technology. His current research interests include immersive technologies, serious gaming, multi-modal virtual environments/simulation/reality, and 3D (gpu) sound generation for interactive virtual environments. He is currently leading the serious gaming theme within the Social Sciences and Humanities Research Council of Canada (SSHRC) Interactive and Multi-Modal Experience Research Syndicate (IMMERSe) initiative. Bill is a past recipient of an IBM Centers for Advanced Studies Faculty Award, a past co-recipient of a Google Faculty Award, and a past recipient of a Natural Sciences and Engineering Research Council of Canada (NSERC) and Japan Society for the Promotion of Science (JSPS) Fellowship to conduct research in Japan.

DANIEL RAEMER PhD
Associate Professor of Anesthesia, Harvard Medical School
Bioengineer, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital
Chief Curiosity Officer, Center for Medical Simulation

Simulation Trauma! Avoiding harm to patients, participants, and staff

Dan Raemer has developed a special expertise in teamwork and crisis management over the past twenty-four years at the Center for Medical Simulation in Charlestown, Massachusetts. He is particularly interested in the art of debriefing and is frequently called upon to facilitate multi-disciplinary teamwork sessions in a variety of specialty areas such as operating rooms, intensive care units, emergency departments, endoscopy, and labor and delivery suites. In 2003, Dan received a unique award from the Harvard Department of Anesthesia for ‘excellence in teaching’. Using simulation as a research tool to investigate healthcare worker’s behaviors and thought processes has been his most enduring passion. Dan has published work in these areas and has given numerous keynote addresses for specialty societies and other healthcare organizations on simulation as it has blossomed in the last several years. He has worked globally to establish the International Meeting of Medical Simulation Trauma! Avoiding harm to patients, participants, and staff. He is a Past-President of the Society for Simulation in Healthcare (SSH). In 2008, Dan received a Lifetime Achievement Award from SSH for his contributions to the field. Dan is also a Past-President of the Society for Simulation in Anesthesia. Dan’s graduate degrees are in Bioengineering and he worked as a researcher for many years at Brigham and Women’s Hospital and Massachusetts General Hospital in the Anesthesia and Critical Care Departments. In addition to his publications related to simulation practice and research, he has written extensively on monitoring devices and has a number of patents for clinically useful devices and technologies.

SIMULATION-IN-ACTION

DAY 1 @ 12:45pm-2:15pm | ORION BALLROOM

A Novel, Low Cost, Virtual Tool for Pre-training Novice Learners in Bronchoscopy Table 1
Brisieida Mena, Vannessa Chhn, Hospital for Sick Children

The 8 A’s of Dementia – Trigger Video Simulations Table 2
Lisa Sokoloff, Cathy Smith, Shoshana Helfenbaum, Raquel Meyer, Baycrest Health Sciences

In the Palm of Your Hand: Video Simulations to Learn a Digital Checklist App to Care for Seniors with Frailty Table 3
Jennifer Reguindin, Raquel Meyer, Patricia Julian, Alvina Anantram, Baycrest Health Sciences

Fostering Creativity in Interprofessional Teams Through Simulation: A Serious Game to Enhance Dementia Care Table 4
Jennifer Reguindin, Maria Nelson, Raquel Meyer, Baycrest Health Science; Jessica Vizenor, Amanda Canfield, University of Toronto; Joyce Kuang, McMaster University; Shannon Coffey, Western University

Designing Prosthetic Appliances for Healthcare Simulation: Creating Realistic Prosthetic Appliances Using Anatomy, Physiology, Physics, and Statistics as a Guide Table 5
Barry Robinson, George Brown College

Your Patient Will See You Now: Using Artificial Intelligence (AI) in an OSCE Setting Table 6
Michelle Castleberry, Stacey Shaywood, Spectrum Nasco

VIRTUAL SIMULATION SHOWCASE

DAY 1 @ 2:30pm-4:30pm | ORION BALLROOM

Virtual Gaming Simulation: A Prenatal Experience Table 1
Margaret Verkuyl, Centennial College; Jennifer Lapum, Oora St’aman, Ryerson University

Praxis – Decision Making Simulator Table 2
Robert Walker, Justice Institute of British Columbia

Problem Gambling Counselling Skills Practice: Toby’s Third Session Table 3
Beth Murray, Sarah Waldman, Centre for Addiction and Mental Health (CAMH)

ImageSim – Performance-Based Medical Image Interpretation Learning System Table 4
Kathy Boutis, Hospital for Sick Children; Marty Pecaric, Contrast Imaging Services; Martin Pusic, New York University

The Angiogram Procedure Through Virtual Reality Patient Education Table 5
Kyle Wilcocks, Nour Halabi, Priya Karlick, Robert Savaglio, Alvaro Uribe Quevedo, Bill Kapralos, University of Ontario Institute of Technology; Chi-Ming Chow, St. Michael’s Hospital

Virtual Eye Fundus Examination Table 6
Minh Nguyen, Bill Kapralos, University of Ontario Institute of Technology; David Acosta, Alvaro Uribe Quevedo, Universidad Militar Nueva Granada; David Gu, Michael Jenkin, York University; Kamen Kanev, University of Shizuoka

Virtual Cardiac Auscultation: A Room-Scale and Mobile VR Approach Table 7
Mario Vargas Orjuela, Alvaro Uribe Quevedo, Byron Perez Gutierrez, Universidad Militar Nueva Granada; David Rojas, The Wilson Centre; Bill Kapralos, University of Ontario Institute of Technology

Virtual Reality Simulation in Sepsis Table 8
Jack Pottie, Oxford Medical Simulation

Virtual Reality Dementia Simulation Table 9
Lisa Sokoloff, Raquel Meyer, Shoshana Helfenbaum, Cathy Smith, Faith Boucher, Alvina Anantram, Baycrest Health Sciences; Terry Myers, The Digital Generals

Choose Your Own Adventure – Leveraging Online Simulation for Team-based Learning Table 10
Lisa Sokoloff, Cindy Plunkett, Shoshana Helfenbaum, Faith Boucher, Raquel Meyer, Cathy Smith, Jennifer Reguindin, Baycrest Health Sciences

Virtual Simulation: Concepts of Shock Table 11
Troy Papadostathis, Sue Coffey, Leslie Graham, Arlene De La Rocha, Hilde Zijlstra, University of Ontario Institute of Technology

vSim for Nursing – Mental Health Table 12
Corey Wolfe, Wolters Kluwer
2017 SIM CITIZENSHIP AWARD
Sponsored by Healthcare Insurance Reciprocal of Canada (HIROC)

The SIM Citizenship Award recognizes simulationists across Canada who have made incredible contributions in the field of healthcare simulation. It honours those who have made an outstanding impact on building the simulation community, education, creative professional activities, advocacy, research and other endeavours. The award celebrates collaborative and dedicated simulationists who have advocated for and championed simulation in their communities. Importantly, this award recognizes leading simulationists who may not otherwise be celebrated through more traditional academic awards.

The nominees for the 2017 SIM Citizenship Award are as follows:
- Bruce Ballon, Centre for Addiction & Mental Health
- Sabrina Boucher, Collège La Cité
- Carol Butler, Fanshawe College
- Colette Foisy-Doll, MacEwan University
- Paula Martirili, George Brown College
- Elaine Ng, Hospital for Sick Children
- Laurie Peachey, Nipissing University
- Eva Peisachovich, York University
- Jane Tyerman, Trent/Fleming School of Nursing

2017 SIM INNOVATOR AWARDS
Sponsored by Gaumard

Reflecting the evolution of SIM-one and CNSH into a new Canada-wide network, the SIM Innovator Awards are regional level awards that recognize an organization in each region of Canada who has demonstrated exceptional commitment to innovate, advocate and advance simulation for education, patient safety or quality improvement.

These awards will celebrate organizations at the leading edge of integrating simulation into their activities, using simulation-based strategies to disrupt the status quo and profoundly improve education and/or patient care.

The nominees for 2017 SIM Innovator Awards are as follows:
- Alberta Health Services, for their province-wide eSIM program, improving care quality and patient safety among 1650 health centres
- Baycrest Health Sciences, for a range of innovative SIM activities dedicated to improving care for seniors
- Canadore College, for the breadth and depth of their simulation program, including a focus on Indigenous health
- Dalhousie University’s Stroke Interprofessional Team which annually brings together learners from 7 professions to experience the full continuum of stroke care
- John Abbott College, for their longstanding commitment to integrating simulation across their nursing curricula
- Ontario Simulation Alliance, for advancing collaboration among several Ontario nursing faculties for scenario creation and nursing simulation research
- Université de Montréal (Faculté des sciences infirmières), pour son enseignement en approche par compétences et l’intégration de la simulation à tous les cours cliniques.

POSTERS & VIDEOS

P1 Multi-Agent Systems for the Simulation of Maintenance Resource Allocation in Healthcare Buildings
Zahra Yousefi, Seyed Aminhosain Shafii Arani, Fuzhan Nasiri, Osama Moselhi, Concordia University

P2 Open Education Resources and Simulation: Creating a Wiki for Debriefing
Christina Choung, Vancouver Coastal Health

P3 Certification Practice Analysis: History and Future
Andrew Spain, Society for Simulation in Healthcare

P4 Reforging the Critical Care Response Team Simulation Training Program
Laura Hawryluck, UHN – Toronto Western Hospital; Phoebe Lam, Philip Ma, Preeti Dhur, UHN – Toronto General Hospital

P5 Creation of a Novel, Interprofessional, Accredited Simulation Update for Emergency Department Staff Healthcare Workers
Agnes Ryzymski, Susan Desousa, Sunnybrook Health Sciences Centre, Canadian Simulation Centre; Nicole Kester-Greene, Caroline Filipowska, Sunnybrook Health Sciences Centre, University of Toronto

P6 Sustainability in Simulation Education: The Creation and Evolution of a Simulation Alliance
Tammie McPartland, Laurie Peachey, Nipissing University, Jane Tyerman, Trent University; Marian Luckar-Flude, Deborah Tregunno, Queen’s University, Leslie Graham, University of Ontario Institute of Technology; Michelle Lalonde, University of Ottawa

ADMINISTRATION & MANAGEMENT

P7 Students Lead Practice Workshops Using Simulation Principles
Laura Nicholson, Alistair Desouza, Steven Gandaile, York University

P8 Integrating Emergency Nursing Skills into Undergraduate Drop-In Simulations to Enhance Clinical Reasoning
Jana Lok, Erica Cambily, Jordanina McMurray, Laura Fairley, University of Toronto

P9 Enhancing End-of-life Care Curricula Using Simulation
Erica Cambily, Laura Fairley, Jordanina McMurray, University of Toronto

P10 Raising the Bar: Replicating Complex Learning Through Simulations in a Mental Health Nursing Course
Pamela Khan, University of Toronto

P11 Designing and Implementing a Serious Virtual Simulation Game as a Precourse Simulation Preparation Activity for a Live Respiratory Distress Simulation for Nursing Students
Marian Luckar-Flude, Deborah Tregunno, Rylan Egan, Queen’s University; Jane Tyerman, Lily Chumbley, Laura Collins, Trent University; Tammie McPartland, Laurie Peachey, Nipissing University; Michelle Lalonde, University of Ottawa; Margaret Verkuyl, Centennial College; Paula Martirili, George Brown College

P12 Saving Lives with Simulation-based Learning: The Opioid Crisis
Sue Colley, Hilde Zitlzeiberger, Bill Murhead, Fro Papanastasiou, Ellen Vogel, Winnie Sun, Charles Anyinam, University of Ontario Institute of Technology; Leslie Graham, Arlene De La Rocha, Diana Chorney, University of Ontario Institute of Technology–Durham College

EDUCATIONAL RESOURCES & FACULTY DEVELOPMENT

P13 Obstetrics & Gynecology Modified Delphi Consensus Survey for Entrustable Professional Activities: Quantification of their Importance, Benchmark Levels, and Roles in Simulation-Based Training and Assessment
Milena Garofalo, Rajesh Aggarwal, McGill University
POSTERS & VIDEOS CON’T

P14 Simulation in Obstetrics and Gynecology for the Training of Health Care Professionals: A Systematic Review Protocol
Milena Gandolfi, Celine Gondano, Rajesh Aggarwal, Tahir Erkmen, McGill University

P15 Faculty Development in Design, Delivery and Facilitation of Clinical Simulation for Health Professional Students: A Systematic Review of the Literature
Marian Luczkar-Flude, Kim Sears, Molly Steer, Christina Godfrey, Amanda Ross-White, Queen’s University; Sandra Goldsworthy, University of Calgary; Nicole Harder, University of Manitoba

P16 Development of a Template to Ensure Content Validity of Simulations Assessing Key Competencies and Roles in Occupational Therapy Graduates
Carmen Maliner, Claudia Tabot-Coulombe, Nadine Lanlieré, Université de Sherbrooke

P17 Preparation for Competency Based Curriculum in Psychiatry: An Innovative and Collaborative Approach to Faculty Development
Latika Nirula, Laura Hayos, Stephanie Sleekers, Alyssa Kelly, Centre for Addiction and Mental Health (CAMH); Kari White, Nazanin Khodadoust, Douglas Campbell, Allan Waters Family Simulation Centre, St. Michael’s Hospital; Amy Donne, Centre for Faculty of Development, University of Toronto

P18 Peer Review in Simulation Education – More Than a Check Box
Tammi McParland, Laurie Peachey, Nipissing University; Marian Luczkar-Flude, Deborah Tregnunno, Rylan Egan, Queen’s University; Jane Tyerman, Trent University; Michelle Lalonde, University of Ottawa; Leslie Graham, University of Ontario Institute of Technology

IN SITU & WORKPLACE SIM

P19 In Situ, Multidisciplinary Simulation Encourages Process Change: A Quality Improvement Project
Lorissa Mews, University of Alberta

P20 Enhancing Oxygen Titration and Tracheostomy Suctioning Skills For Physiotherapist through Simulation Based Education
Denise Scott; Sarah Branton, Angela Miller, Humber River Hospital

P21 Implementing an Organization Initiative – Simulation Leads the Way
Alison Dodds, Sandhya Parekh, Julie Watson, Roger Correa, Erin Van Deven, Jessica Fernandes, Hospital for Sick Children

P22 Getting Ahead of the Game: Using Simulation to Design Workspaces and Workflows that Reduce Risk in Medication Administration Practices
Li Peckan, Melissa Dougherty, Leah Levesque, Queensway Carleton Hospital

P23 ReflectiveSpineVR: Incorporating Nonlinear Interaction History Into Surgical Simulation Design
Won Hyung A. Ryu, Ahmed E. Mostafa, Ehud Sharlin, W. Bradley Jacobs, Sonny Chan, Garnette R. Sutherland, University of Calgary; R. John Hurlbert, Queensway Carleton Hospital

Li Peckan, Queensway Carleton Hospital

INNOVATION & LEARNER ENGAGEMENT

P25 Development of a Sustainable Simulator and Simulation Program for Laparoscopic Skills Training in Haiti
Kerry-Lynn Williams, Tia Renouf, Adam Dubroswiecki, Memorial University; Emile Darnais, Chesnel Norcídie, Yvel Zephyr, Justinién University Hospital

P26 Including the Learner’s Voice in Simulation Teaching
Jordana McMurray, Erica Cambly, Jana Lók, Laura Fairly, Sarah Johnston, University of Toronto

P27 Advancing Nursing Practice Through Integrating Simulation Into Large Classroom Setting
Natasha Frank, Ryerson University and George Brown College

P28 Student Perspectives on the Use of Gamification of Simulation in Nursing Education
Emily Odkrève, James Bunker, David Ford, Justin Haslehurst, Laurie Peachey, Tammi McParland, Nipissing University

P29 From Card Game to Gamified Learning App: Innovation in Simulation-based Education for Seniors Care (Video)
Raquel Meyer, Jennifer Reguindin, Faith Bouthier, Baycrest Health Sciences; David Chandross, Ryerson University

P30 Who Dunnit? Engaging Students in Nursing Theory Through a ‘Murder Mystery’ Simulation
VJ Gibbins, University of Alberta

INTERPROFESSIONAL EDUCATION

P31 Simulating Real Life Emergencies
Brenda Ridley, Richard Alvaraz, Nazlin Hirji, Humber College

P32 Simulated Interprofessional Team Learning with Nursing and Pharmacy Students
Barbara Wilson-Keates, Tanya Park, Cheryl Sandowski, Shaira King, Theresa Charrois, Joanne Olson, Sandra Davidson, Pauline Paul, Sherry Mengering, University of Alberta

P33 Initiating a Sustainable Interprofessional Pediatric Mock Code Program Using High Fidelity Simulation in a Community Hospital
Karen Fleming, Darlene Baldaro, Melanie Ostreicher, North York General Hospital

P34 Collaborating for the Future: A Laurentian University, Health Sciences North and Northern Ontario School of Medicine Initiative
Nicole Lafreniere, Laurentian University; Robert Anderson, Tara Baldisera, Northern Ontario School of Medicine; Michael Roach, Health Sciences North

P35 Learning Across Disciplines: An Interprofessional Virtual Gaming Simulation Journey
Michelle Hughes, Centennial College; Lorraine Betts, Chareen Wood, George Brown College; Daria Romaniuk, Ryerson University

VIRTUAL

P36 Nursing Students’ Experiences with Clinical Communication Using a Virtual Program
Shelley Sarnwe, Seneca College

P37 Efficacy Study of an Interactive Multi-media Online Module to Help Nursing Students Learn Blood Pressure (Praktik)
Helen Harrison, Robert Haaf, Natalia Aguilón, Fanshawe College

P38 Designing and Implementing a Serious Virtual Simulation Game Focusing on the De-escalation of the Angry Patient as a Full Game and as a Pre-Simulation Preparation Activity for Undergraduate Nursing Students
Jane Tyerman, Lillian Chumbiley, Trent University; Marian Luczkar-Flude, Deborah Tregnunno, Rylan Egan, Queen’s University; Tammi McParland, Laurie Peachey, Nipissing University; Michelle Lalonde, University of Ottawa; Margaret Verkuyl, Centennial College; Paula Mastrilli, George Brown College

P39 Designing and Implementing a Serious Virtual Simulation Game Focusing on the Older Adult with Urosepsis as a Full Game and as a Pre-Simulation Preparation Activity for Undergraduate Nursing Students
Laurie Peachey, Tammi McParland, Nipissing University; Jane Tyerman, Lillian Chumbiley, Trent University; Marian Luczkar-Flude, Deborah Tregnunno, Rylan Egan, Queen’s University; Michelle Lalonde, University of Ottawa; Margaret Verkuyl, Centennial College; Paula Mastrilli, George Brown College

P40 The conception and the mise en œuvre d’un jeu de simulation virtuelle comme une activité de préparation pré-simulation pour les étudiants dans un programme de baccalauréat en sciences infirmières dans un contexte francophone
Michelle Lalonde, University of Ottawa; Jane Tyerman, Lillian Chumbiley, Trent University; Marian Luczkar-Flude, Deborah Tregnunno, Rylan Egan, Queen’s University; Tammi McParland, Laurie Peachey, Nipissing University; Margaret Verkuyl, Centennial College; Paula Mastrilli, George Brown College
RESEARCH PRESENTATIONS DAY 2 @ 11:00am-12:00pm

GAMIFICATION & COMPUTER-BASED LEARNING Pegasus A
Competency Based Learning of Pediatric Musculoskeletal Radiographs Using ImageSim
Kathy Boutis, Michelle Lee, Jennifer Stimec, Hospital for Sick Children; Martin Pusic, New York University; Marty Pecaric, Central Consulting Services; Benoit Carriere, CHU Sainte-Justine; Andrew Dixon, Stollery Children’s Hospital

Gamification of a Virtual Reality Simulation Curriculum in Endoscopy: A Randomized Controlled Trial
Michael Scaffidi, Matthew Peart, Peter Lin, Ruben Kalaichandran, Rishad Khan, Kathleen Winger, Abbas Ali Bakhari, Claudia Pecoranò, Bianca Pivetta, Mandy Yuan, Jenny Ma, Minusha Ramaj, Raman Kalaichandran, Samir Grover, St. Michael’s Hospital; Catharine Walsh, Hospital for Sick Children

Sim X-Treme Makeover! Gamification of a High-Fidelity Nursing Simulation
VJ Gibbons, Sandra Davidson, How Lee, Brenda Macintyre, Deirdre Jackman, Barbara Wilson-Keates, University of Alberta; Kala Streibel, Andrea Tannahill, Sarah Maio, Liz Sinclair, Jennifer Cross, Red Deer College

INNOVATION & LEARNER ENGAGEMENT Phoenix C
Pre-simulation Preparation in the Classroom and the Simulation Lab Using a Mobile Classroom Response System with Undergraduate Nursing Students
Mariç Luurtár-Flude, Cheryl Pulling, Katie Goldie, Ideavna Costa, Queen’s University

An Electronic Competency-based Evaluation Tool for Assessing Humanitarian Competencies in a Simulated Exercise
Andrea Evans, Jennifer Hulme, University of Toronto; Hilarie Cranmer, Massachusetts General Hospital; Peter Nugas, Kirsten Johnson, McGill University

When you Change the Viewpoint, the Perspective Changes
Karyn Taplay, Sheila O’Keefe-McCarthy, Kayleigh Tyner, Tanner Mills, Brock University

PATIENT SAFETY Phoenix A
Simulation to Improve Safety in the OR: Evaluation of a Novel Interprofessional Team Training Program
Christopher Wong, Rachel Fisher, Vincent Collard, Catherine Paquet, Ilana Bank, Meredith Young, Lily Nguyen, McGill University; Matthew Slimovitch, Université de Sherbrooke

Return on Investment of Interprofessional Simulation Training in Detection and Management of Sepsis on Patient Outcomes
Michelle Kwong, McMaster University; Suzanne Schell, Return of Investment Canada

The Types of Medication Errors Made by Nursing Students While Using an Electronic Medication Administration Record (eMAR) System During Clinical Simulation: A Mixed Method Quality Improvement Project
Barbara Sinclair, Richard Booth, Laura Brennan, James Tong, Holy Rosario, Michele Hancock, Wendy Vlastic, Western University; Gillian Strudwick, Centre for Addiction and Mental Health (CAMH)

The Development of a Medication Administration Error Reporting Heuristic Instrument for Simulated Clinical Nursing Education
Sydney Truelove, Richard Booth, Barbara Sinclair, Ryan Chan, Emily Soares, David Tran, Western University; Gillian Strudwick, Centre for Addiction and Mental Health (CAMH)

SIMULATION-BASED LEARNING Phoenix B
Development of Crisis Resource Management Skills Using High Fidelity Simulation Education
Amanda Lucas, University of Manitoba

Developing an Intraoperative Learning Strategy for Interprofessional Healthcare Students
Barbara Wilson-Keates, Bin Zheng, How Lee, University of Alberta

Practice Fridays: Using Simulation to Develop Holistic Competence
Toula Kourentzakis, Marion Bogo, Karen Sewell, University of Toronto

Learning Theories and Tools for the Assessment of Core Nursing Competencies in Simulation: A Descriptive Review
Patrick Lavoie, Louise Boyer, Jacinthe Pépin, Université de Montréal; Cécile Michaud, Émilie Gosselin, Marilou Bélisle, Université de Sherbrooke

SIMULATORS & SUPPORTING TECHNOLOGIES Pegasus B
Development of a High Fidelity Pressurized Porcine Beating Heart Simulator for Cardiac Surgery Training
Igo Ribeiro, Janet Ngu, Gurinder Gill, Fraser Rubens, University of Ottawa Heart Institute

The Use of Smartphones in Simulation an Interprofessional Perspective
Sandra Goldsworthy, University of Calgary

Surgical Moment (Measurement of Objective Metrics in Nonreal Training) – Predictive Validity In Operative Teaching
Marcelo Oliveira, New York University

ASK THE EXPERTS & SPECIAL INTEREST DAY 2 @ 12:00pm-12:30pm

SIM Research – Ask the Experts Phoenix A
Nicole Harder
For experienced and beginning researchers. Connect with peers, ask questions of experts, and join a cohort of researchers planning to apply on masse for grants this spring!

Gamification – Ask the Experts Phoenix B
David Chandross, Sara Dodd
Pick the brains of experts and peers also working on gamification in healthcare education!

SIM Lab Operations – Ask the Experts Phoenix C
Michael Eladis
Connect with peers and experienced SIM lab coordinators, managers and techs to learn and share tips for successfully running your simulation program.

Indigenous Health & Simulation – Discussion Circle & Interest Group Pegasus B
Louise Mor, Patricia Chabbert
Many educators and institutions have expressed interest in utilizing simulation as one approach to responding to the Truth and Reconciliation Commission of Canada: Calls to Action. This discussion circle will help facilitate the sharing of ideas and approaches to ensuring these simulations are created and delivered in a culturally respectful manner.

Establishing Canadian SIM Standards – Open Discussion Pegasus A
Sandra Goldsworthy, Barbara Wilson-Keates, Timothy Willett
Join colleagues as we kick off this special interest group to explore existing standards related to healthcare simulation and begin a discussion about determining interprofessional Canadian standards.
**MORNING WORKSHOPS  9:15am-10:45am**

**AM1** Staying in the Game: Using In Situ Simulation to Bring Out the Best in Staff–Family Interactions  (40 min)  Pegasus A
Shoshana Heifenbaum, Cathy Smith, Baycrest Health Sciences

Practice Like You Play! An Overview of Simulation-Based Mastery Learning in Health Professions Education  (40 min)  Pegasus A
Elizabeth Horsley, The Brooklyn Hospital Center

**AM2** Virtual Reality Simulators for Skills Training: Using Them to the Max  (90 min)  Pegasus B
Briseida Mena, Hospital for Sick Children; Anne Kawamura, Dominique Piquette, University of Toronto

**AM3** Designing SIM for Interprofessionalism, Diversity and Inclusivity  (90 min)  Phoenix A
Darin Abbey, Centre for Interprofessional Clinical Simulation Learning; Amy Nakajima, University of Ottawa; Sharla King, University of Alberta

**AM4** No Health Without Mental Health: Designing Interprofessional Mental Health Scenarios for Simulation Training  (90 min)  Phoenix B
Christopher Kowalski, Laura Hayos, Latika Nirula, Centre for Addiction and Mental Health (CAMH)

**AM5** INACSL’s Revised Standards of Best Practice: Simulation  (90 min)  Phoenix C
Leslie Graham, University of Ontario Institute of Technology-Durham College

**AFTERNOON WORKSHOPS  2:00pm-3:30pm**

**PM1** Training Scars: How We Are Creating Errors Through Simulation  (40 min)  Pegasus A
Andrew Spain, Society for Simulation in Healthcare

Maximizing Simulation for Purpose Built Experiences  (40 min)  Pegasus A
Therese Gurin, Queensland University of Technology

**PM2** Is There a Valid Tool in Simulation or Do I Need to Develop One to Assess Competency of My Trainee?  (90 min)  Phoenix A
Briseida Mena, Vannessa Chin, Hospital for Sick Children; Anne Kawamura, University of Toronto

**PM3** Simulation for Workspace and Process Assessments  (90 min)  Phoenix B
Elaine Ng, Roger Correa, Alison Dodds, Darlene Murray, Hospital for Sick Children

**PM4** Prove the Value & Measure the Return on Investment of Simulation Training  (90 min)  Phoenix C
Suzanne Schell, ROI Institute Canada; Michelle Kwong, McMaster University

**PM5** Developing Serious Virtual Games to be Used as Pre-simulation Preparation Within Healthcare Education  (90 min)  Pegasus B
Jane Tyerman, Lillian Chumley, Trent University; Marian Lucitcak-Flude, Deborah Tregunno, Rylan Egan, Queen’s University; Tamnie McParland, Laurie Peachey, Nipissing University; Michelle Lalonde, University of Ottawa; Margaret Verkuyl, Centennial College; Paula Mastrilli, George Brown College

**SUSPECTS LOGIC PUZZLE**

**WHO BUSTED SimMan?**

Six recent healthcare graduates were sharing stories about their experiences in simulations, and how nervous they were before their first simulation. One graduate admitted how badly their first simulation went—they accidentally broke the school’s brand new SimMan 3G!

So, the 3 men (Anthony, Greg, and Carlos) joined the 3 women (Eve, Patsy and Shannon) for some karaoke as they shared their stories—and each picked a song that reflected how they felt during that first simulation. Can you identify where each graduate is sitting at their table (they are all sitting on the same side, facing the karaoke stage), their profession, and the name of the song they selected?

From this, can you deduce who must have broken SimMan? Look out for clues all around the Expo… Visit each exhibitor and ask if they have a clue…

When you think you’ve figured it out, complete a ballot at the Expo registration desk!

Here are some clues to get you started…

- The person who broke SimMan is a huge fan of the Beatles.
- Eve and the one who sang I Want To Be Sedated are the nurse and the person sitting next to the one who sang Calling Doctor Love, in some order.
- The six graduates are Anthony, the graduate who sang Calling Doctor Love, the physiotherapist, the physician, the person in seat 6, and the person sitting three seats away from Eve.

- The person who sang Twist and Shout is the paramedic.
- The person who sang Cuts Like a Knife is the respiratory therapist.
- The person who sang Take My Breath Away is the nurse.

**SUSPECTS**

- Eve
- Patsy
- Shannon
- Anthony
- Greg
- Carlos

**SONGS**

- I Wanna Be Sedated
- Twist and Shout
- Calling Dr. Love
- Dr. Feelgood
- Cuts Like a Knife
- Take My Breath Away

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<td>Eve</td>
<td>Patsy</td>
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<td>Greg</td>
<td>Carlos</td>
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<td>Paramedic</td>
<td>Respiratory Therapist</td>
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</tbody>
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*Note: The table above is for reference only and does not represent the actual seating arrangement.*

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Schools of nursing are increasingly challenged to provide high-quality clinical experiences for students. Educators have turned to simulation as a method of providing rich learning opportunities that can replicate clinical situations. From basic assessment to advanced practice, Laerdal’s newest simulation solution allows students and nursing professionals the ability to practice core skills, enhance clinical competence, and experience realistic patient encounters that will better prepare them to provide the highest level of quality care.

Visit Laerdal.ca to learn more

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E9 Avkin  www.avkin.com
The Avkin product line intuitively creates the suspension of disbelief by paring sensor enabled wearable technology with human interaction. The product line delivers the sight, sound and feel of actual bedside care in a safe, simulated environment. Instructors can now focus on what is truly important, the learners from pre-brief through debriefing.

A3 CAE Healthcare  www.caehealthcare.com
CAE Healthcare delivers healthcare training solutions to hospital clinicians, students and military organizations worldwide. Visit the CAE Healthcare booth to learn about our newest patient, imaging and interventional simulators, including CAE VimedixAR with Microsoft Hololens and the CAE Juno clinical skills manikin. Ask about our center management solutions for simulation-based education.

E4 Gaumard Scientific  www.gaumard.com
Gaumard provides simulation solutions for health care education, offering maternal, neonatal, emergency, nursing, respiratory, and life support simulators and Tetherless “Care in Motion” simulation technology. We are the pioneers and the industry leaders. Educators worldwide rely on our diverse line of simulators to train today’s health care students and professionals.

Laral Medical  www.laerdal.com
For more than 50 years, healthcare providers and educators have trusted Laerdal to offer products, services and solutions that help improve patient outcomes and survivability. By supporting the advancement of resuscitation science, improving medical education and strengthening the chain of survival in communities worldwide, we help you save more lives.

C2 Lecat’s Ventriloscope  www.ventriloscope.com
Lecat’s Ventriloscope can incorporate high quality sounds into your mannequin scenarios and simulate auscultation findings on Standardized patients. Further, we have recently unveiled a blood pressure teaching system allowing educators to test two students together in less time. A Master Clinician Ventriloscope has been added as well to allow Educators or students to download into an iphone or ipad any sound they may comes across that they wish to study or use later. Our Heart / Lung Trigger products allow you to synchronize to the pulse and breathing of a mannequin or SP. Increase the reality of all your mannequin and SP scenarios quickly and simply. All products will increase throughput within your sim center!

F4 Limbs & Things  www.limbsandthings.com/ca
Limbs & Things was established in Bristol, England in 1990 by medical artist Margot Cooper. The business focuses on the development, manufacture and sale of medical training products for healthcare professionals and students worldwide. We are committed to working in close collaboration with clinicians globally to produce realistic task trainers, that enable more competent and confident professionals, with the ultimate aim of improving patient outcomes and reducing medical error. Limbs & Things has offices in the UK, US, Australia and Sweden, as well as partnerships with distributors worldwide.

E13 Studica Limited  www.studica.com/realityworks/health-science
Since 1985, Studica Limited has provided comprehensive learning solutions designed to engage, impact and educate today’s students. We are proud to announce an expanded line of Health Science products to help educators provide practical, hands-on skill development using the most realistic and easy-to-use training tools to ensure that instructors have the resources they need to teach transferrable job skills, address career exploration and develop soft skills with each lesson.

F2 Pocket Nurse  www.pocketnurse.com
Pocket Nurse® is a leading manufacturer and distributor of medical supplies and equipment for simulation and healthcare education. A nurse-owned-and-operated company, Pocket Nurse has been a trusted partner in nursing, EMS, pharmacy, and allied healthcare education since 1992. Pocket Nurse is the exclusive distributor of Demo Dose®, simulated medications for education. Order online at www.PocketNurse.com or call 1-800-225-1600.

E8 Pristine Medical  www.pristinemedical.ca
Pristine Medical is a Toronto based distributor of customized nursing kits, nursing supplies, and simulated medication.

E7 Society for Simulation in Healthcare  www.ssh.org
The Society for Simulation in Healthcare (SSH) seeks to improve performance and reduce errors in patient care through the use of simulation. Established in 2004 by professionals using simulation for education, testing, and research in health care, SSH membership includes physicians, nurses, allied health and paramedical personnel, researchers, educators and developers from around the globe. SSH fosters the improvement and application of simulation-based modalities such as human patient simulators, virtual reality, standardized patients and task trainers.

C1 Spectrum Nasco  www.spectrum-nasco.ca/healthcare
Spectrum Nasco proudly manufactures Life/form® and Simulads products for your training needs. We are known for high quality and great value. Celebrating over 60 years of proven satisfaction in the world of simulation. Please pay special attention to ALEX, our new PCS (Patient Communication Simulator). ALEX is the first manikin on the market to have intelligent conversations with the “student”. ALEX also captures interaction between patient and student from the patients point of view via a built-in camera in the eyes. ALEX retalies for under $20,000 CAD. You will not find another high-fidelity option on the market in that price range! For more information and a quick video please go to ALEX.simulads.com.

B4 Wolters Kluwer  www.wolterskluwer.com
Wolters Kluwer Health is a leading global provider of information and point of care solutions for the healthcare industry. Our solutions are designed to help professionals build clinical competency and improve practice so that healthcare organizations can succeed in value-based care delivery models. Product solutions include ProtVid, Lippincott, UpToDate®, and UpToDate®.

D1 ZOLL Medical  www.zoll.com
ZOLL® Medical Corporation, a leader in medical devices and software solutions, helps hospital professionals manage, treat, and save lives while also increasing operational efficiency. With innovative products for defibrillation, circulation, pacing, temperature management, and ventilation, ZOLL provides a comprehensive set of technologies, including Real CPR Help® and See-Thru CPR®, which help improve patient outcomes. ZOLL also designs and markets software that automates the documentation and management of both clinical and non-clinical information.
CAE Healthcare offers a radically new perspective for learners

CAE VimedixAR is integrated with Microsoft HoloLens, the world’s first self-contained holographic computer. For the first time, students will interact with holograms of human anatomy as they learn how to obtain ultrasound views and assess patients.