World Federation of Chiropractic
Association of Chiropractic Colleges

11TH CHIROPRACTIC EDUCATION CONFERENCE

November 2-5, 2022
Logan University, Chesterfield, Missouri
United States of America

Leveling Up: Creating Consistency in Chiropractic Education
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Welcome Message

On behalf of us all at the World Federation of Chiropractic and the Association of Chiropractic Colleges, we invite you to join us at the 11th WFC ACC Chiropractic Education Education Conference. This year we are in St Louis, Missouri, for what will be a stimulating and inspiring event for educators, academics, association leaders, students and anyone with an interest in chiropractic education.

We encourage you to join us in showcasing the leadership that thrives within the international chiropractic educational community, and inspiring the students of today to become the chiropractors of tomorrow.

In an age where collaborative, patient-centered care is championed, we are delighted to invite thought leaders from outside chiropractic to bring new teaching and learning perspectives, future-focused innovations and groundbreaking technologies to the educational arena.

Our 2018 Conference in the iconic capital city of London was the best-attended ever. Delegates, exhibitors, sponsors and organizers showcased best practices, forged new relationships, identified opportunities and shared knowledge and skills. This year, we intend to break new records.

For 2022, our magnificent venue, the Purser Center, located on the beautiful campus of Logan University, could not be better equipped to host a WFC ACC Education Conference and our delegates, sponsors and exhibitors will not fail to be impressed by the scale of this outstanding facility.

As a Conference attendee, you will be at an event which now attracts educational leaders and decision-makers from chiropractic institutions and universities around the globe. We look forward to seeing you in St Louis.

Richard Brown
Secretary-General
World Federation of Chiropractic

Anne Marie Munson
Executive Director
Association of Chiropractic Colleges
Planning Committee

Dr. Richard BROWN DC, LL.M, FRCC
Richard is the Secretary-General of the World Federation of Chiropractic. A graduate of AECC University College, he was in private practice for over 25 years. He is a past President of the British Chiropractic Association and a past Secretary-General of both the European Chiropractors’ Union and the European Academy of Chiropractic. He is a Fellow of the Royal College of Chiropractors and is a member of Eurospine, the spine society of Europe.

Dr. Deborah BUSHWAY PhD
Deb currently serves as the President and CEO of Northwestern Health Sciences University, where she previously served as Provost and Executive Vice-President. She is an acknowledged expert in competency-based education and has previously acted as an Advisor at the Office of the Undersecretary at the Department of Education in Washington DC. She has a particular interest in innovations in education to improve student success.

Dr. Bart GREEN DC, PhD
A chiropractor for more than 25 years, Bart is the Editor-in-Chief of the Journal of Chiropractic Education and a faculty member at the National University of Health Sciences. He is a full-time practicing chiropractor in an interprofessional corporate health center for Stanford Health Care. He has worked in private practice and previously served as a staff chiropractor at Naval Medical Center San Diego, establishing its first chiropractic service. Bart has a Master’s degree in health professions education and a PhD in public health.

Dr. Clay McDONALD DC, MBA, JD
Clay is the President of Logan University and a past Chair of the Association of Chiropractic Colleges. He has extensive experience both in private practice and in chiropractic education. He served for a number of years on the Board of the Council on Chiropractic Education (U.S) and currently sits as a board member on the Spine Institute of Quality. During his time at Logan University, he has overseen its evolution into a full health sciences institution.

Mr. David O’BRYON JD, CAE
David retires this year as President of the Association of Chiropractic Colleges. With almost 40 years of US government and association experience, he has served organizations as an executive, consultant and volunteer. David serves on the Secretariat of the National Association of Schools and Universities in the US. He is the Past President of the Federation of Associations of Schools of the Allied Health Professions.

Dr. Desiree VARATHARAJULLU
Desiree is an academic and head of the chiropractic department at Durban University of Technology (DUT), South Africa. She received her M.Tech in chiropractic from DUT and served as a part-time lecturer while working in private practice prior to joining the university on a full-time basis. As well as her leadership role in the department, Desiree also supervises Masters students, having experience in a range of approaches, including clinical trials and qualitative studies. Desiree holds a PhD in Health Sciences and an Advanced Diploma in Business Administration.

Dr. David WICKES DC, MA
David is the President of the Canadian Memorial Chiropractic College. He has decades of academic experience, having previously served at the University of Bridgeport, University of Western States and National University of Health Sciences. He is recognized for his work in simulation-based learning. He has widely promoted the linkage of accreditation to continuous quality improvement in the education setting and has held a number of roles on the Council on Chiropractic Education (US).
Program at a glance

**Wednesday, November 2**
2:00pm - 5:00pm Exhibition set-up  
2:00pm - 5:00pm Poster set-up  
2:00pm - Registration opens  
6:30pm - 8:00pm Welcome reception  

**Thursday, November 3**
7:30am - Registration opens  
8:30am - 5:30pm Conference Program and Exhibition  

**Friday, November 4**
8:30am - 5:30pm Conference Program and Exhibition  

**Saturday, November 5**
8:30am - 4:45pm Conference Program and Exhibition  
3:30pm - Exhibition tear-down and Poster removal

Fast facts

In 2018, there were:  
- Over 160 attendees  
- 10 exhibitors  
- International attendees from 35 educational institutions  
- Representatives present from each of the WFC’s 7 world regions  
- International speakers from as far afield as Australia, France, South Africa, Spain, Belgium, Canada, Switzerland, Denmark, Mexico, Netherlands and the United States  
- Students engaged at a number of levels.

There are now over 50 chiropractic educational institutions worldwide.
This year's WFC ACC Global Education Conference will be held in the magnificent Purser Center, located on the beautiful 112-acre campus of Logan University.

Logan University is situated in the town of Chesterfield, a 20-minute journey from St Louis International Airport and approximately 25 minutes from the city of St Louis, in the U.S. state of Missouri.

Founded in 1935, Logan University merged with a number of other chiropractic colleges over the years and acquired its present site, a former seminary, in 1972. Numerous additional buildings have been constructed, with major renovations having taken place over the years. Earlier this year, Logan University hosted a ground breaking ceremony for the new Fuhr Science Center, named in honor of major benefactors, Arlan and Judi Fuhr.

The Purser Center has three indoor auditoriums and an outdoor amphitheater. With glass walls and terrazzo marble flooring, it boasts an architecturally stunning, 10,000 square foot lobby area, which will be the location for the conference trade stands, lunches and refreshment breaks.

Versatile, accessible and spectacular, the Purser Center is the perfect location for the WFC ACC Education Conference. The plenary sessions will be held in the main auditorium, while the afternoon research presentations and workshops will be split between the equally impressive breakout rooms.

With its main 900-seater theater and two 150-seater auditoriums, the Purser Center promises to be one of the most impressive venues ever to host a WFC ACC Chiropractic Education Conference.

Featuring state-of-the-art sound and lighting, the 2022 WFC ACC Chiropractic Education Conference will be an unforgettable experience.

Don't miss the opportunity to experience Midwest hospitality, the vibrant and historic nearby city of St Louis, featuring its iconic Gateway Arch, art galleries, museums and rich parkland.

REGISTER ONLINE AT:
wfc.org/educonf2022
Life never stops teaching.

As a premier health sciences university, Logan’s mission and curriculum are grounded in evidence-informed, outcome-based ongoing research activity. Our faculty are top-notch in their research; presenting locally, regionally, nationally and internationally.

logan.edu/research
Introduction

Leveling up has increasingly been referred to in society, particularly in relation to moral, social and economic dimensions. Essentially, it means that no one should be left behind.

Not everyone benefits equally from service provision, in society in general, and in education in particular. While talent may be spread equally, opportunity is not. Leveling up is a mission to challenge that unfairness. Leveling up means giving everyone the opportunity to flourish. Leveling up means putting an end to inequality.

In chiropractic education, leveling up means tackling inequalities in teaching and learning, meeting competencies and ensuring that the delivery of education achieves and exceeds basic minimum standards. Leveling up is about raising the bar for all.

Consistency, continuity and coordination are frequently referred to as the “three C’s” of seamless patient care. Yet in considering the education of health professionals, it is arguably as important that these values are applied to training. The expectations of patients and the public are such that care received in one area of a country or continent should be broadly similar to that received by another patient of the country.

This conference will tackle issues of consistency in chiropractic education. It will look at competencies, curriculum design, application of evidence, accreditation and testing, supporting faculty, meeting student expectations and achieving consistent graduate outcomes.

Conference objectives

The WFC / ACC Chiropractic Education Conference is the world’s premier event dedicated to chiropractic education and training. This outstanding conference will bring together leaders and international experts to discuss and debate emerging trends in chiropractic education and will showcase the latest evidence-informed educational research.

Delegates will have the opportunity to listen to renowned international experts in the field of health care education and share best practices from around the world. Inspiring, interactive workshops will focus on enhancing the learner experience whilst equipping faculty to develop skills and knowledge by better understanding innovations in key areas of knowledge transfer.

At the same time, other stakeholders in chiropractic education, including national association leaders, will develop fresh perspectives to inform national and international development of the chiropractic profession.

Who should attend?

This conference addresses subjects that are of importance not only to those who are engaged in leadership and teaching in chiropractic education and research but also to practicing chiropractors.

The meeting will be of interest to leaders and faculty from chiropractic educational institutions and organizations as well as representatives of chiropractic associations and all interested in current developments in health care delivery systems relevant to chiropractic.
Conference program*  *Program subject to change

WEDNESDAY, NOVEMBER 2, 2022

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<tr>
<th>Time</th>
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<th>Event</th>
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<tr>
<td>2:00</td>
<td>Lobby</td>
<td>EXHIBITOR SET-UP</td>
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<td>2:00</td>
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<td>POSTER SET-UP</td>
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<td>4:00</td>
<td>Lobby</td>
<td>REGISTRATION OPENS</td>
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<td>6:30</td>
<td>Lobby</td>
<td>WELCOME RECEPTION</td>
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THURSDAY, NOVEMBER 3, 2022

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<tr>
<th>Time</th>
<th>Location</th>
<th>Event</th>
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<tr>
<td>7:30</td>
<td>Lobby</td>
<td>REGISTRATION OPENS</td>
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<tr>
<td>8:30</td>
<td>Walters Auditorium</td>
<td>CONFERENCE OPENING &amp; WELCOME</td>
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<tr>
<td>9:00</td>
<td>Walters Auditorium</td>
<td>John Maltby, President, World Federation of Chiropractic (USA)</td>
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<td>9:00</td>
<td>Walters Auditorium</td>
<td>David Wickes, Vice-Chair, Association of Chiropractic Colleges (USA)</td>
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<tr>
<td>9:00</td>
<td>Walters Auditorium</td>
<td>Clay McDonald, President, Logan University (USA)</td>
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<tr>
<td>9:00</td>
<td>Walters Auditorium</td>
<td>Arlan Fuhr, Chairman and Founder, Activator Methods (USA)</td>
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SESSION A: LEVELING UP - THE CASE FOR EQUITY IN CHIROPRACTIC EDUCATION

Session Chair: Desiree Varatharajullu, Head of Chiropractic Department, Durban University of Technology (South Africa)

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<tr>
<th>Time</th>
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<tr>
<td>9:00</td>
<td>Walters Auditorium</td>
<td>WHY LEVELING UP MATTERS: CREATING OPPORTUNITY FOR ALL</td>
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<tr>
<td>9:00</td>
<td>Walters Auditorium</td>
<td>Celina Caesar-Chavannes, Author of ‘Can You Hear Me Now?’, former Canadian Member of Parliament and DEI campaigner (Canada)</td>
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<tr>
<td>9:50</td>
<td>Walters Auditorium</td>
<td>MAKING THE RIGHT ADJUSTMENTS</td>
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<td>10:05</td>
<td>Walters Auditorium</td>
<td>TBC</td>
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<tr>
<td>10:05</td>
<td>Walters Auditorium</td>
<td>ELIMINATING BARRIERS TO CHIROPRACTIC EDUCATION</td>
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<td>10:05</td>
<td>Walters Auditorium</td>
<td>Shelley Sawalich, Dean of Students, Logan University (USA)</td>
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<tr>
<td>10:20</td>
<td>Walters Auditorium</td>
<td>Q&amp;A SESSION</td>
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REFRESHMENT BREAK, VENDOR EXHIBITION AND POSTER VIEWING
### SESSION B: STAYING THE COURSE - DEVELOPING CONSISTENCY IN STUDENT ADMISSIONS

Session Chair: Daniel Moore, Head of Department, Teesside University (UK)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>11:00-11:15</td>
<td><strong>TALENT SPOTTING: CANDIDATES IN THE SPOTLIGHT</strong></td>
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<tr>
<td></td>
<td>Patti Scott, Registrar, Canadian Memorial Chiropractic College (Canada)</td>
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<tr>
<td>11:15-11:30</td>
<td><strong>HOLISTIC REVIEW IN ADMISSIONS</strong></td>
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<td></td>
<td>Kimberleve Rolon, Associate Director of Academics, Universidad Central del Caribe (Puerto Rico)</td>
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<tr>
<td>11:30-12:30</td>
<td><strong>PANEl DISCUSSION: ADMISSIONS - AN INEXACT SCIENCE?</strong></td>
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<td></td>
<td>Natacha Douglas, Vice President of Admissions and Financial Aid, Logan University (USA) (Moderator)</td>
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<td></td>
<td>Phillip Dewhurst, Head of School (Chiropractic) AECC University College (UK)</td>
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<td>Deborah Bushway, President, North Western Health Sciences University (USA)</td>
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<td></td>
<td>Danica Brousseau, Director, Chiropractic program, Université du Québec à Trois-Rivières (Canada)</td>
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<tr>
<td></td>
<td>Carl Cleveland III, President, Cleveland University (Kansas City) (USA)</td>
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**LUNCH, VENDOR EXHIBITION AND POSTER VIEWING**

**TRACK A1**

<table>
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<th>Time</th>
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<tbody>
<tr>
<td>2:00-3:30</td>
<td><strong>EDUCATION RESEARCH PLATFORM PRESENTATIONS</strong></td>
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<td></td>
<td><strong>Moderator: Anthony Tibbles, Dean of Clinics, Canadian Memorial Chiropractic College (Canada)</strong></td>
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</tbody>
</table>

- Chiropractic students’ learning and study strategies and association between anxiety and concentration
  *Monica Smith, Krista Ward, Dale Johnson*

- Survey of attitudes and perceived barriers to scholarship and research among Doctor of Chiropractic program faculty
  *Mark Pfefer, Rebecca Wates, Emily Ford*

- Burnout syndrome in chiropractic interns: a pilot longitudinal study
  *Gary Tam, Jesse Cooper, Gregory Priest, Katherine Pohlman*

- Assessing and monitoring diversity in education – development and use of the Action & Participation Plan (APP)
  *Christina Cunliffe, Matthew Green, Adrian Hunnisett*
**THURSDAY, NOVEMBER 3, 2022**

### TRACK A1 (CONTINUED)

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<th>Time</th>
<th>Location</th>
<th>Presentation</th>
<th>Authors</th>
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<tbody>
<tr>
<td>2:00</td>
<td>Walters Auditorium</td>
<td>The experiences of first-time registered chiropractic students at a South African university of technology regarding their transition from high school to university</td>
<td><em>Keiron Boosi, Desiree Varatharajullu</em></td>
</tr>
<tr>
<td>2:30</td>
<td>Walters Auditorium</td>
<td>Why study chiropractic? A qualitative analysis of student choices</td>
<td><em>Philip Dewhurst</em></td>
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<tr>
<td>3:00</td>
<td>Walters Auditorium</td>
<td>Medical students' experiences as patients in a chiropractic student clinic and its impact on future interprofessional collaborations</td>
<td><em>Mayda Serrano, Marcia Garcia</em></td>
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<tr>
<td>3:30</td>
<td>Walters Auditorium</td>
<td>Contrast bias in grading student clinical interns across the transition between trimesters</td>
<td><em>Michael Sheppard, Stephanie Johnson, John Ward</em></td>
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<td></td>
<td></td>
<td>A description of chiropractic students' skills and importance for evidence-based practice competencies: a 6-year serial cross-sectional survey</td>
<td><em>Larissa Armstrong-Kager, Christopher Malaya, Ashley Long, Dana Lawrence, Katherine Pohlman</em></td>
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### TRACK B1

<table>
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<th>Time</th>
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<th>Authors</th>
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<tr>
<td>2:00</td>
<td>North Mabee</td>
<td>Development of a clinical reasoning assessment tool based on a modified OSCE and a longitudinal clinical vignette</td>
<td><em>Danica Brousseau</em></td>
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<tr>
<td>2:30</td>
<td>North Mabee</td>
<td>Interprofessional student-led clinics: an educational opportunity to realise WFC EPIC principles</td>
<td><em>Amy Miller, Edwin van Teijlingen, Sue Way, Alison Taylor</em></td>
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</table>
**Conference program**

*Program subject to change

**THURSDAY, NOVEMBER 3, 2022**

**TRACK B1 (CONTINUED)**

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<th>North Mabee</th>
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<tr>
<td><strong>INNOVATIONS IN CHIROPRACTIC TEACHING AND LEARNING</strong></td>
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<tr>
<td>The use and benefits of a construct-aligned scale for clinical assessment</td>
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<td><em>Christopher Petrie, Christopher Smoley, Katie Burns-Ryan</em></td>
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<td>Contextualised admissions in chiropractic education</td>
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<td><em>Hazel Jensen, Philip Dewhurst</em></td>
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<td>Passion driven project – A capstone experience to integrate biomedical knowledge, behavior change and self care in chiropractic students</td>
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<td><em>Martha García, Francisco Davila, Jose Quidgely, Alvaro Perez</em></td>
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**TRACK C1**

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<th>South Mabee</th>
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<tbody>
<tr>
<td><strong>WORKSHOPS (45 MINUTES)</strong></td>
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<td>The WHO Global Competency Framework for Universal Health Coverage: are we training chiropractors to meet these competencies in support of their role as an integral part of the global health workforce?</td>
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<tr>
<td><em>Deborah Kopansky-Giles, Deborah Bushway, Anthony Tibbles</em></td>
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<tr>
<td>Public health in chiropractic education: revisiting competencies in a post-COVID world</td>
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<td><em>Michele Maiers, Rebekah Wilks</em></td>
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**REFRESHMENT BREAK, VENDOR EXHIBITION AND POSTER VIEWING**

**TRACK A2**

<table>
<thead>
<tr>
<th>Walters Auditorium</th>
<th>4:00</th>
<th>5:30</th>
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</table>
| **EDUCATION RESEARCH PLATFORM PRESENTATIONS**  
Moderator: Danica Brousseau, Clinical Professor, UQTR (Canada) |  |
| Impacts of the Covid-19 pandemic on ECCE accredited programs: a mixed-methods audit |  |
| *Chris Yelverton, Cynthia Peterson, B. Kim Humphreys, Kenneth Vall* |  |
| What did we learn about learning from the pandemic? |  |
| *David Wickes* |  |
Conference program*

THURSDAY, NOVEMBER 3, 2022

TRACK A2 (CONTINUED)

Chiropractic faculty experiences of burnout and the COVID-19 pandemic
Krista Ward, Bradley Francis, Ricky Wong, Melinda Pham, Monica Smith

A cross-sectional study of Australian chiropractors’ and students’ readiness to identify and support patients experiencing intimate partner violence
Keri Moore, Lyndon Amorin-Woods, Deisy Amorin-Woods, Dein Vindigni, Navine Haworth

Role of videoconferencing in the training of patient history-taking
Christopher Marchese

Perceptions and attitudes of chiropractic students toward blended learning and the subsequent COVID-19 necessitated shift to e-learning
Fatima Ismail, Rolene Raderman, Christopher Yelverton, Cynthia sen

Cultural competency of students in diversity and health class: results from three assessments.
Lisa Killinger

Evidence mapping of lecture capture research in the health professions: an updated analysis
David Wickes

TRACK B2

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<tr>
<td></td>
<td></td>
<td>INNOVATIONS IN CHIROPRACTIC TEACHING AND LEARNING</td>
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<td></td>
<td></td>
<td>Moderator: Bart Green, Editor-in-Chief, Journal of Chiropractic Education</td>
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</table>

Fully integrated musculoskeletal point-of-care ultrasound training for chiropractic students
Jake Halverson, Alvaro Peres
Using technology to help create consistency in chiropractic

Rose Olsen-Long

Empathy in chiropractic education: a novel approach

Scott Dunham, David Starmer, Lauren Ead

3D Printing to enhance anatomy education

Victoria Lyons, Sheryl Walters, Jonah Finocchiaro

**TRACK C2**

<table>
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<tr>
<th>Workshop</th>
<th>Time</th>
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<tbody>
<tr>
<td>Interprofessional student-led practice: exploring opportunities and developing skills for implementation</td>
<td>4:00</td>
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<tr>
<td>Amy Miller, Philip Dewhurst, Hazel Jensen</td>
<td>5:30</td>
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</tbody>
</table>

Developing core competencies for interprofessional relationships in integrated care settings

Jason Napuli, Zachary Cupler, Clinton Daniels, Anna-Marie Ziegler, Matthew Kneiper, Robert Walsh

**END OF DAY 1**
# Conference Program

**FRIDAY, NOVEMBER 4, 2022**

## Session C: Creating Consistency in Remote Teaching and Learning

### Session Chair: Carl Cleveland III, President, Cleveland University (Kansas City), Missouri (USA)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:30</td>
<td><strong>How to Develop a Compelling Online Presentation</strong></td>
</tr>
<tr>
<td></td>
<td>Shawn Thistle, RRS Education (Canada)</td>
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<tr>
<td>9:00</td>
<td><strong>Harnessing Technology for Online Delivery</strong></td>
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<tr>
<td></td>
<td>David Wickes, President, Canadian Memorial Chiropractic College (Canada)</td>
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<tr>
<td>9:15</td>
<td><strong>Lessons from Pivoting to E-Learning</strong></td>
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<td>Arlan Fuhr, Chairman and Founder, Activator Methods (USA)</td>
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<tr>
<td>9:30</td>
<td><strong>Student Perspectives on 21st Century Learning</strong></td>
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<td>Louisa Conradi, Past President, Director of External Affairs, World Congress of Chiropractic Students (Germany)</td>
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<tr>
<td>9:45</td>
<td><strong>From Stage to Screen: Managing Faculty Stress in a Time of Transition</strong></td>
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<td>Speaker TBC</td>
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## Refreshment Break, Vendor Exhibition and Poster Viewing

## Session D: Creating Consistency in Graduate Outcomes

### Session Chair: Kristina Petrocco Napuli, Interim Dean, Logan University College of Chiropractic (USA)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>11:00</td>
<td><strong>Defining Knowledge, Skills and Competencies to Meet Expectations of the Public</strong></td>
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<td>Stuart Smellie, Director of Academic Affairs, Royal College of Chiropractors (UK)</td>
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<tr>
<td>11:15</td>
<td><strong>Evolution of a New Regional Accreditation Agency for Latin America</strong></td>
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<td></td>
<td>Mayda Serrano, Dean of Clinics, Universidad Central del Caribe (Puerto Rico)</td>
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<tr>
<td>11:30</td>
<td><strong>Taking a Fresh Look at Consistency in Accreditation Standards</strong></td>
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<td></td>
<td>Joseph Brimhall, President, University of Western States (USA)</td>
</tr>
</tbody>
</table>
**SESSION D (CONTINUED)**

**Walters Auditorium  11:45  12:30**  
**PANEL DISCUSSION: IS CONSISTENCY IN CHIROPRACTIC EDUCATION ESSENTIAL FOR PROFESSIONAL GROWTH?**

- Olivier Lanlo, President, Institut Franco-Europeen de Chiropaxie (France)  
  (Moderator)

- Navine Haworth, Academic Dean, Australian Chiropractic College (Australia)

- Trevor Foshang, Dean of Chiropractic, Campbellsville University, Kentucky (USA)

- Jorge Castillo Hernandez, Head of Chiropractic, Universidad Veracruzana (Mexico)

- Cynthia Peterson, Chair, Councils on Chiropractic Education International

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**LUNCH, VENDOR EXHIBITION AND POSTER VIEWING**

**TRACK A3**

**Walters Hall  2:00  3:30**  
**EDUCATION RESEARCH PLATFORM PRESENTATIONS**  
Moderator: Sarah Graham, Postdoctoral Associate, Yale University (USA)

- **Process of Integrating Evidence (PIE) for Complementary and Integrative Healthcare (CIH) educators: confidence changes to use and teach evidence-based practice (EBP)**
  
  Katherine Pohlmam, Craig Jacobs, Katie Hoyt, Joshua Goldenberg, Ron LeFevbre, Dana Madigan

- **Interprofessional collaboration: hospital rotation experience for chiropractic interns and medical doctors at a neuromusculoskeletal department in an acute care hospital**
  
  Mayda Serrano, Waleska Crespo

- **From promoting interest to writing quality scientific literature: an experimental educational intervention**
  
  Arantxa Ortega, Carlos Gevers, Ricardo Fujikawa

- **Cultural competency among Canadian chiropractors: a national survey**
  
  Silvano Mior, Noorahuda Bakaa, Danielle Annamalai, Luciana Macedo, Lisa Carlesso, Joy Christianne McDermid
**Conference program**

*Program subject to change*

### FRIDAY, NOVEMBER 4, 2022

#### TRACK A3 (CONTINUED)

Teaching social determinants of health in one chiropractic program: pathways for Implementation within didactic and experiential learning

*Jevinne Khan, Patrick Battaglia, Jordan Gliedt, Joseph Pfeifer*

Attitudes, beliefs, and recommendations for chronic low back pain patients: cross-sectional surveys of a chiropractic teaching institution

*Ryan Muller, Jesse Cooper, Jordan Gliedt, Katherine Pohiman*

Use and attitudes toward diagnostic ultrasonography a cross-sectional survey in an educational clinic setting

*Nicole Zipay, John Chin-Suk Cho*

#### TRACK B3

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
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</table>
| 2:00  | North Mabee | INNOVATIONS IN CHIROPRACTIC TEACHING AND LEARNING  
Moderator: Brian McAulay, Vice-President for Academic Affairs, Logan University (USA) |
| 3:30  | North Mabee | A hospital based interprofessional chiropractic clinic  
*Waleska Crespo* |
|       |           | Teaching mental health awareness to chiropractic students  
*Deborah Kopansky-Giles* |
|       |           | Development and use of a comprehensive clinical internship dashboard  
*Christopher Smoley, Christopher Petrie, Katie Burns-Ryan* |
|       |           | Preparing for practice: spine surgery in case-based chiropractic education  
*Joel Carmichael* |
|       |           | The need and feasibility of a Doctor of Chiropractic program at a public research-intensive university in the USA  
*Michael Schneider* |
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session Title</th>
<th>Speakers</th>
</tr>
</thead>
</table>
| 2:00  | South Mabee  | **WORKSHOPS (45 MINUTES)**  
Improving cultural competence in Canadian chiropractic students and the profession  
*Ayda Azad, Scott Dunham, Silvano Mior, Karin Hammerich, Danielle Annamalai, Alison Dantas*  
Educating educators on evidence  
*John Stites, Ron LeFebvre, Katherine Pohlman, Craig Jacobs* | |
| 4:00  | Walters Hall  | **EDUCATION RESEARCH PLATFORM PRESENTATIONS**  
Moderator: Amy Miller, Lecturer, Clinical Sciences, AECC University College (UK)  
Imposter phenomenon in chiropractic education  
*Scott Dunham, Alexander Sgro, David Starmer*  
Comparing student perceptions of the impact of peer feedback in team-based learning and other student-centered learning activities  
*Emily Boggess, Cecilia Martin, Cortny Williams*  
Establishing chiropractic interprofessional postdoctoral fellowship programs in research and health policy: experiences from two United States medical schools  
*Sarah Graham, Wren Burton, Matthew Kowalski, Peter Wayne, Cynthia Brandt, Anthony Lisi*  
Measuring the quality of the OSCE in a chiropractic program: a review of metrics and recommendations  
*Alice Cade, Nimrod Meuller*  
The Councils on Chiropractic Education International Mapping Project: comparing member agencies' standards to the framework  
*Cynthia Peterson, Kristi Randhawa, Lynn Shaw, Michael Shobbrook Lenore Edmunds, Drew Potter* | |
FRIDAY, NOVEMBER 4, 2022

TRACK A4 (CONTINUED)

A comparative audit of jurisprudence, ethics and business management (JEB) courses taught at 21 accredited chiropractic programs worldwide

*Brian Gleberzon*

Effect of video announcements on instructor presences and student engagement in the graduate online classroom

*Jessica Hilton*

Chiropractic curricula mapping to establish exam competency: a content validity study

*Bruce L. Shotts, Gabriel Owusu, Igor Himmelfarb*

Examining the relationship between test taking time and test scores: evidence from chiropractic pre-licensure testing programs

*Igor Himmelfarb, Bruce L. Shotts, Andrew Gow*

TRACK B4

INNOVATIONS IN CHIROPRACTIC TEACHING AND LEARNING

Moderator: John Scaringe, President, Southern California University of Health Sciences, California (USA)

Faculty manuscript writing program

*Zak Monier, Katherine Pohlman*

Monitoring academic engagement to identify students at risk and intervene before it is too late

*Celia Maguire*

Utilization of force sensing tables to access psychomotor skills utilized in the chiropractic adjustment

*Daryl Ridgeway*

Transmedia storytelling to understand infectious diseases

*Martha Garcia, Alvaro Perez*
FRIDAY, NOVEMBER 4, 2022

**TRACK C4**

<table>
<thead>
<tr>
<th>Location</th>
<th>Time</th>
<th>Session Type</th>
<th>Duration</th>
<th>Description</th>
</tr>
</thead>
</table>
| South Mabee| 2:00  | WORKSHOPS    | 45 MINUTES | How to establish a quality learning environment that facilitates transformative learning  
  *Cortny Williams*
  Using interactive educational technologies to facilitate active learning  
  *Yuan Gao*

END OF DAY 2
SESSION E: PREPARING STUDENTS FOR INTERPROFESSIONAL PRACTICE

Session Chair: Ricardo Fujikawa, Head of Chiropractic, Madrid Chiropractic College, El Escorial (Spain)

Walters Auditorium 8:30 8:45 WHAT I WISH I'D KNOWN AT THE TIME: THE CHALLENGES OF ADJUSTING TO REALITY
Rebekah Wilks, former SACA/NextGen member

Walters Auditorium 8:45 9:00 CONSISTENTLY BEST BEHAVIOR: TEACHING PROFESSIONAL STANDARDS TO PREVENT ETHICAL INFRACTIONS
Stuart Kinsinger (Canada)

Walters Auditorium 9:00 9:15 RESIDENCIES IN THE VETERANS AFFAIRS ADMINISTRATION
Anthony Lisi, Department of Veterans Affairs (USA)

Walters Auditorium 9:15 9:30 EMBEDDING INTERPROFESSIONALISM IN A HEALTH SCIENCES UNIVERSITY
Lesley Haig, Pro Vice Chancellor, AECC University College (UK)

Walters Auditorium 9:30 9:45 SIDE BY SIDE: INTERPROFESSIONAL TEACHING AND LEARNING IN SWITZERLAND
Mirjam Baechler, Head of Curriculum, Chiropractic Department, University of Zurich (Switzerland)

Walters Auditorium 9:45 10:30 CONSISTENCY IN INTERPROFESSIONAL, PEOPLE-CENTERED REHABILITATION
Tony Delitto, Dean, School of Health and Rehabilitation Sciences, University of Pittsburgh (USA)

REFRESHMENT BREAK, VENDOR EXHIBITION AND POSTER VIEWING

SESSION F: CREATING CONSISTENCY FOR GLOBAL PORTABILITY

Session Chair: Clay McDonald, President, Logan University, Missouri (USA)

Walters Auditorium 11:00 11:15 PREPARING STUDENTS FOR REGULATORY COMPLIANCE
Donna Cohen, Executive Director, International Chiropractic Regulatory Society (USA)

Walters Auditorium 11:15 11:30 MEETING PUBLIC EXPECTATIONS THROUGH STANDARDIZED ASSESSMENT
Norman Ouzts, Executive Director, NBCE/IBCE (USA)

Walters Auditorium 11:30 11:45 ESTABLISHING A BENCHMARK FOR SPORTS CHIROPRACTIC
Brian Nook, Executive Management Committee Member, FICS (USA)
## Conference program*

*Program subject to change

### SATURDAY, NOVEMBER 5, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>11:45</td>
<td><strong>FROM COWBOY TO PIT CREW: ADAPTATION TO A NEW ENVIRONMENT</strong></td>
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<td>Walters Auditorium</td>
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<td>Bart Green, Editor, Journal of Chiropractic Education</td>
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<tr>
<td>12:00</td>
<td><strong>RESEARCH AWARDS: CERF-WFC ALAN ADAMS CHIROPRACTIC EDUCATIONAL RESEARCH</strong></td>
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<td>Walters Auditorium</td>
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<td></td>
<td>Bart Green, Editor, Journal of Chiropractic Education</td>
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<td>Richard Brown, Secretary-General, World Federation of Chiropractic</td>
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<td></td>
<td>LUNCH BREAK, VENDOR EXHIBITION AND POSTER VIEWING</td>
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<tr>
<td>1:30</td>
<td><strong>CONSISTENCY AND THE TRIAD OF TRUST: PROFESSIONALISM, PATIENTS AND PARTNERSHIPS</strong></td>
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<td>Walters Auditorium</td>
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<td></td>
<td>Richard Brown, Secretary-General, World Federation of Chiropractic (Canada)</td>
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<tr>
<td>2:00</td>
<td><strong>HOW TO LEVEL UP CHIROPRACTIC EDUCATION WITH UNIVERSAL DESIGN FOR LEARNING</strong></td>
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<td>Walters Auditorium</td>
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<td>Thomas J. Tobin, Center for Teaching, Learning and Mentoring, University of Wisconsin - Madison (USA)</td>
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<tr>
<td>3:30</td>
<td><strong>DEVELOPING CONFERENCE CONSENSUS STATEMENTS</strong></td>
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<td>Walters Auditorium</td>
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<td>Facilitators: Shawn Thistle (Canada) &amp; Craig Little (USA)</td>
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<tr>
<td>4:30</td>
<td><strong>CLOSING REMARKS</strong></td>
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<td>Walters Auditorium</td>
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<td></td>
<td>Richard Brown &amp; Anne Marie Munson</td>
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</table>

### END OF DAY 3

### END OF CONFERENCE

REGISTER ONLINE AT:
wfc.org/educonf2022
Poster Presentations

Practical and clinical training in chiropractic education: learning the lessons from the pandemic
Christina Cunliffe, Dan ruby, Khalim Mehrabi, Laura Pendleton, Adrian Hunnisett

Diversity, equity and inclusion accreditation standards in the US: a content analysis leading to proposed changes
Craig Little

A research honors program in a U.S. Doctor of Chiropractic program
Cynthia Long

Where are we in the tapestry of learning? Rediscovering the threads of learning via a content review of chiropractic courses
Alice Cade, Marina Fox

Influences on ideology, beliefs and practice patterns of United States chiropractors: a secondary analysis of a national survey
Zachary Cupler, Jordan Gliedt, Stephen Perle, Aaron Puhl, Michael Schneider,

Developing chiropractic students’ clinical practice skills - elements of best practice: a qualitative exploratory descriptive study
Navine Haworth

Correlation between NBCE Part I performance and the curriculum in the Doctor of Chiropractic program at Universidad Central del Caribe
Kimberleve Rolon-Reyes

The reliability of an electronic health record audit in a chiropractic teaching clinic: study results and improvements
Craig Jacobs

Building for the future: the RAND Center for Collaborative Research in Complementary and Integrative Health
Patricia Hernan, Ian Coulter, Jeanmarie Burke, Stephen Cypher, Nipher Malika, Margaret Whitley

Staying connected with research articles: using Read by QxMD to connect users with the library
Sheryl Walters, Victoria Lyons, Jason Goodman

Changes in chiropractic students’ attitude toward back pain management after one of three clinical evidence educational training procedures
Katherine Pohlman, Per Palmgren, Zakary Monier, Patrick Boylan, Adam Browning, Kimberly Cerf.

Assessment of ground reactive force of the provider while delivering chiropractic spinal manipulation: a pilot study
Mitchell Ludwig, Steven Reece, Stuart Macintosh, Mark Pfefer

Who wants to be a chiropractor?
Philip Dewhurst

General Chiropractic Council (GCC) UK fitness to practise principles and professional ethics: creation of a study guide to facilitate learning
Stuart Kinsinger, David Byfield

Exploring in-person vs Virtual Interprofessional Education (IPE) in family medicine
Deborah Kopansky-Giles, Ann Stewart, Grace Zhou, Judith Peranson, Pegah Rahbar

Exploring clinicians’ experiences and perceptions of end-user roles in knowledge development: a qualitative study
Leslie Verville, Carol Cancelliere, Gaelen Connell, Joyce Lee, Sarah Munce, Silvano Mior
Using an active surveillance reporting system to prospectively identify adverse events at the Macquarie University chiropractic teaching clinics
Christopher Burrell, Aron Downie, Katherine Pohlman, Martha Funabashi, Rosemary Giuriato, Katie da Luca

Facilitator guide: teaching motivational interviewing and the SBIRT Method through an interprofessional simulated clinical experience learning activity
Jeffrey Kamper

Assessment for learning: an essential component of student engagement
Celia Maguire

Exploring clinician perceptions of a care pathway for the management of shoulder pain: a qualitative study
Leslie Verville, Carol Cancelliere, Gaeleen Connell, Joyce Lee, Silvano Mior, Sarah Munce

Examining the validity of chiropractic Grade Point Averages for predicting NBCE Part I exam scores
Igor Himmelfarb, Bruce L. Shotts, Andrew Gow

Impact of face masks in chiropractic students during the COVID-19 pandemic on daily classroom interaction
Ricardo Fujikawa, Arantxa Ortega

History of chiropractic education in New York
William Lauretti

Humanizing diseases
Jeremy Barthels

Should Northeast College of Health Sciences implement a supplementary instruction program to improve chiropractic technique skills?
Brett Carnevale

The conference organizers would like to express their sincere thanks to Brighthall Inc. for overseeing the blinded peer review of submitted abstracts and ensuring integrity of the process throughout.
A total of 110 abstracts were received in response to a call that was issued late in 2021. Twenty-six experts from around the world, led by Peer Review Chair Dr Bart Green, individually reviewed each of the abstracts and scored them on a range of parameters.

In ensuring the integrity of the process, Peer Reviewers played no part in reviewing abstracts to which they were connected.

The WFC and ACC are most grateful to Dr Green and his committee for their outstanding efforts to assure the quality of education research presented at this conference.

Peer Review Team, 11th WFC ACC Chiropractic Education Conference

Chair:
Bart Green, DC, MSeD, PhD

Committee:
Hasan Kerem Alptekin, MD
Ilji Arar, PhD
Mirijam Baechler, DC, MMed
Richard Brown DC, LLM
Jorge Castillo Hernandez DC
Trevor Foshang
Bart Green
Xiaohua He, MD, MS
Dana Hollandsworth, DC
Claire Johnson, DC, MSeD, PhD
Martha Kaeser, DC, Med
Charmaine Korporaal, Mtech
Mark Langweiler, DC
Arnaud Lardon, DC, PhD
Makani Lew, DC
Barrett Losco MChiro, MPA
Clay McDonald, DC, MBA, JD
Daniel Moore, BSc (Hons), MChiro
John Mrozek, DC, MEd, EdD
Thiana Paula Schmidt dos Santos, DC
Kristina Petrocco-Napuli, DC, MS
Sharné Pillay, MTech (Chiro)
Eric Russell, DC
Michael Tunning, DC, ATC, MS
Adrian Wenban, DC, MMedSc

Journal of Chiropractic Education
Bahçeşehir University
Northeast College of Health Sciences
University of Zurich
World Federation of Chiropractic
Universidad Veracruzana
Campbellsville University
Journal of Chiropractic Education
Palmer College of Chiropractic Florida
Parker University
National University of Health Sciences
Logan University
Durban University of Technology
London south Bank University
Institut Franco-Européen de Chiropratique
Palmer College of Chiropractic (West)
Murdoch University
Logan University
Teesside University
Texas Chiropractic College
Centro Universitario Feeevalle
Logan University
University of Johannesburg
Parker University
Palmer College of Chiropractic
Barcelona College of Chiropractic
### Registration fees (USD)

<table>
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<th>REGISTRATION LEVEL</th>
<th>EARLY BIRD (to September 30)</th>
<th>STANDARD</th>
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<td><strong>Attendees from Asia, Europe, Eastern Mediterranean, North America, Pacific regions</strong></td>
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<tr>
<td>First educational institution representative</td>
<td>695</td>
<td>795</td>
</tr>
<tr>
<td>Second and subsequent representatives</td>
<td>595</td>
<td>695</td>
</tr>
<tr>
<td>Full-time student</td>
<td>295</td>
<td>395</td>
</tr>
<tr>
<td>Non-affiliated individuals</td>
<td>695</td>
<td>795</td>
</tr>
<tr>
<td><strong>Attendees from Africa, Latin America regions</strong></td>
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<tr>
<td>First educational institution representatives</td>
<td>395</td>
<td>495</td>
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<tr>
<td>Non-affiliated individuals</td>
<td>395</td>
<td>495</td>
</tr>
</tbody>
</table>

### CANCELLATION POLICY

- Cancellations received by August 31, 2022 will be eligible for a full refund.
- Cancellations received between September 1, 2022 and October 15, 2022 will be eligible for a 50% refund.
- Cancellations received after October 15, 2022 are non-refundable.

Please note that all eligible refunds will be subject to a 2% administration charge and will be processed after the conference.
Accommodation

Official Conference Hotel:

**DRURY PLAZA ST LOUIS CHESTERFIELD**

355 Chesterfield Center

Chesterfield

MO 63017

United States

Conveniently located close to Logan University, the Drury Plaza St Louis Chesterfield is just a 6-minute drive away.

Representing outstanding value for money, the negotiated room rate of US$128 (+ applicable taxes) includes breakfast and early evening snacks with cold beverages.

This recently refurbished hotel has the following additional facilities:

- 24-hour business center
- Indoor/outdoor pool and whirlpool
- Complimentary Wifi
- Free parking

The Conference has secured a limited number of rooms and early booking is recommended. Rooms will be released on a first-come, first-served basis.

Hotel Reservations can be made by the Conference registrants at [www.druryhotels.com](http://www.druryhotels.com) using the Group Code 10008590.

Alternatively, reservations may be made by calling 1-800-325-0720 and refer to the Group Code 10008590.

Individual reservations must be canceled prior to 12:00 p.m. on the day before the reservation's confirmed date of arrival in order to avoid a non-refundable fee equal to one night’s room rate plus tax.

The hotel requires a valid payment card and photo ID to be presented at check in. Check In Time: 3:00 p.m. Check Out Time: 11:00 a.m. Arrangements may be made for baggage storage with the Hotel’s front desk staff.

Cancellations and/or concerns about the hotel and bookings must be dealt directly with the hotel.
Thank you to our Conference Partners

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As the world's largest chiropractic scientific meeting and premier global event for the chiropractic profession, it will be an unmissable experience. Save the date and start planning now.
For further information contact the WFC at

+1 416 484 9978

info@wfc.org