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Occupational Science & Technology Research Lectureship
Friday, December 14, 2018 • 9:00 am-1:00 pm
Union West Ballroom

Proceedings: https://uwm.edu/healthsciences/event/occupational-science-technology-research-lectureship/

<table>
<thead>
<tr>
<th>Schedule of Events</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakfast with Dr. James Patton</td>
<td>8:00-9:00am</td>
</tr>
<tr>
<td>(Postdoctoral fellows, PhD students, and PTE officers)</td>
<td></td>
</tr>
<tr>
<td>Poster Presentations</td>
<td>9:00-10:15am</td>
</tr>
<tr>
<td>Introduction</td>
<td>10:15-10:25am</td>
</tr>
<tr>
<td>Dr. Brooke Slavens</td>
<td></td>
</tr>
<tr>
<td>Welcome Remarks</td>
<td>10:25-10:30am</td>
</tr>
<tr>
<td>Interim Dean Raymond Fleming</td>
<td></td>
</tr>
<tr>
<td>Podium Presentations</td>
<td>10:30am-Noon</td>
</tr>
<tr>
<td>Introduced by Dr. Brooke Slavens</td>
<td></td>
</tr>
<tr>
<td>Keynote by Dr. James Patton</td>
<td>Noon-1:00pm</td>
</tr>
<tr>
<td>Introduced by Dr. Roger Smith</td>
<td></td>
</tr>
<tr>
<td>Concluding Remarks</td>
<td>1:00pm</td>
</tr>
<tr>
<td>Dr. Brooke Slavens</td>
<td></td>
</tr>
<tr>
<td>Lunch</td>
<td>1:05-2:00pm</td>
</tr>
</tbody>
</table>

Keynote Speaker
James L. Patton, PhD

Professor of Bioengineering at the University of Illinois at Chicago
Senior Research Scientist at Shirley Ryan Ability Lab

Research focus on computational modeling of biomechanics, the neural control of actions, motor learning, and neurorehabilitation
Occupational Science & Technology Research Lectureship Proceedings

Podium Presentations

1. Matthew M. Hanks, PhD, ATC. Comparison of Glenohumeral Kinematics During the Overhead Lacrosse Throw in Able-Bodied and Wheelchair Lacrosse Player

2. Ruoliang Tang, PhD. Morphology of Human Lower Lumbar Spine: Pilot Results Learned from the Three-Dimensional MRI Scans


5. Sabrin Rizk, MS, OTR/L. Effects of Medical Home Access on Receipt of Educational Services in Children with Autism Spectrum Disorder

6. Maysam M. Ardehali, BS. A Review of Electroencephalogram Brain-Computer Interface (EEG-BCI) Systems and Applications in Occupational Therapy and Neurorehabilitation

7. Qussai M. Obiedat, MSOT. A Closed Loop Neural Activity Triggered Stroke Rehabilitation Using an EEG-Based Brain-Computer Interface

Poster Presentations

8. SURF Project: Measuring the Effect of Multifocal Lens Spectacles on VOR

9. The HESTIA Home Evaluation App: Usability Analysis

10. AccessRatings for Buildings (AR-B): Development and Next Gen

11. The Impact of Universal Design on Research Quality

12. The xFACT Taxonomy Editor: Designing Usable Complex Data Collection Protocols

13. Research and Development Needs And The Role Of Rehabilitation Engineering in Combining Therapy And Social Robot Applications

14. Next Generation of Assistive Social Robotics: Therapeutic Applications

15. Increasing Community Participation for People With Disabilities: Enhancing AccessTools

16. The Development of an iPad Application for the Assessment of Pain in Individuals with Developmental Disabilities and Complex Communication Needs

17. A Systematic Comparison of Two Mindfulness-Based Interventions for Individuals with Upper Limb Musculoskeletal Disorders

18. Accuracy of 3D Analysis of Mimicked Postures Compared to Ground Truth Postures to Estimate Shoulder Positioning During Task Performance

19. Evaluating Shoulder Postures During Tasks: Comparing Video and Motion Capture Analysis
<table>
<thead>
<tr>
<th></th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.</td>
<td>Glenohumeral Joint Kinematics and Functional Outcome Scores for ADL Task Following Supraspinatus Rotator Cuff Repair</td>
<td>43</td>
</tr>
<tr>
<td>21.</td>
<td>Occupational Therapists Perspectives on the Potential Use of Performance Profiling in Occupational Therapy Practice</td>
<td>44</td>
</tr>
<tr>
<td>22.</td>
<td>Healthy Transitions from the NICU to Home: A Pilot Study of the SMILE Curriculum</td>
<td>45</td>
</tr>
<tr>
<td>23.</td>
<td>Using Photovoice to Understand the Meaning of Social Participation as it Impacts Transitions for Student Veterans</td>
<td>46</td>
</tr>
<tr>
<td>24.</td>
<td>Using Participatory Action Research to Uncover the Impact Photovoice has on Informing, Creating Opportunities, and Connecting Students by Exposing Focus Groups to Photovoice Pieces Depicting the Transition from Military to Civilian Student Life</td>
<td>49</td>
</tr>
</tbody>
</table>
Introduction
Client centred practice is seen to be vital to the occupational therapy profession. However, there are ongoing challenges to promote our professional values and meet the expectations of services and organisations. There is still a significant shift needed from therapist led sessions to truly collaborative therapy (Sumsion 2006). As a result, the research introduced an alternative method in the form of Performance Profiling to occupational therapy. Performance Profiling is a natural application of Kelly’s (1955) Personal Construct theory that is utilised within sporting psychology (Butler and Hardy 1992). The method offers a systematic approach to enhance the understanding of how athletes rate their physical, psychological and technical skill development to enable optimum performance. This supports collaboration to build ideal intervention based on the athlete’s perception of need (Doyle & Parfitt 1997).

Methods/Design
The research utilised a social constructionist qualitative method which included a workshop introduction, interview or focus group. The participants were asked two questions 1. To share their thoughts about Performance Profiling and 2. Whether they thought it could support Occupational Therapy Practice. Nine expert occupational therapist from three counties participated. The data was thematically analysed.

Results and Discussion
Four major themes were found, theoretical perspectives, practice settings, promoting communication and education. There was an agreement that Performance Profiling had potential use of supporting occupational therapy practice by promoting effective communication with clients. However, further research is required to understand its contribution to the client therapist relationship. This research is a first of a grounded theory doctoral research to provide insight into the valuable communication within the therapy process.

Acknowledgements
We the authors would like to thank all the participants for giving their time and dedication to the research process. Our gratitude is extended to the University of Wisconsin -Milwaukee Occupational Science and Technology team for their continued support to ensure the next phase of the research maintains an international perspective. Special thanks to Dr. Ginny Stoffel and Dr. Jay Kapellusch for your mentorship.

Prior submissions:
This research has been presented at; The Royal College of Occupational Therapists- UK (2015) with developments presented at the; American Association of Occupational Therapists (2018).

References