NU-FlexSIV Socket  
Continuing Education Course  
Session 1: June 8 and 9, 2016  
Session 2: July 22 and 23, 2016

<table>
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<th>Day 1</th>
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| 7am-8am | Registration / Breakfast  
| 8am-10am | Background Lecture: “Introduction to Subischial Socket and Vacuum Technology: The Development of the NU-FlexSIV Socket”¹ (Stefania Fatone, PhD, BPO(Hons) & Ryan Caldwell, CP/L)  
| 10am-10.15am | Break  
| 10.15am-11am | Liner selection and casting demonstration (Ryan Caldwell, CP/L)  
| 11am-12pm | Participants cast patient model and pour plaster (all instructors)  
| 12pm-1pm | Lunch  
| 1pm-2pm | Rectification demonstration (Ryan Caldwell, CP/L)  
| 2pm-6pm | Participants rectify casts, pull and finish check sockets (all instructors)  

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<th>Day 2</th>
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| 7.30am-8.30am | Breakfast / Extra lab time for participants, if needed (all instructors)  
| 8.30am-10am | Demonstration check socket fitting (Ryan Caldwell, CP/L)  
| 10am-10.15am | Break  
| 10.15am-12pm | Participants set up for check socket fitting (all instructors)  
| 12pm-1pm | Lunch  
| 1pm-4pm | Participants fit check sockets to patient models (all instructors)  
| 4pm-4.30pm | Final troubleshooting and Q&A (Ryan Caldwell, CP/L & Stefania Fatone, PhD, BPO(Hons))  
| 4.30-5pm | Discussion of Definitive Socket Fabrication Options (Ryan Caldwell, CP/L & Stefania Fatone, PhD, BPO(Hons))  

¹ The research project, “Development of Subischial Prosthetic Sockets with Vacuum-Assisted Suspension for Highly Active Persons with Transfemoral Amputations”, is funded by Department of Defense grant #W81XWH-10-0744. The course, “NU-FlexSIV Socket” is underwritten by the same DOD grant.  
See: http://www.nupoc.northwestern.edu/research/projects/lowerlimb/dev_subischial.html
NU-FlexSIV Socket Course Personnel

Stefania Fatone, PhD, BPO(Hons), Associate Professor, NUPOC, Physical Medicine and Rehabilitation, Feinberg School of Medicine, Northwestern University.
Email: s-fatone@northwestern.edu
Dr. Fatone is Principal Investigator of the DOD-funded project “Development of Subischial Prosthetic Sockets with Vacuum-Assisted Suspension for Highly Active Persons with Transfemoral Amputations” (#W81XWH-10-0744). A graduate of La Trobe University (Australia, 1995) with a Bachelor of Prosthetics and Orthotics (Honours) and a PhD in Biomechanics (2000), she joined NUPOC as a post-doctoral fellow (2000). Dr. Fatone has conducted multidisciplinary research on the effects of prostheses and orthoses on human locomotion to increase understanding, efficiency and effectiveness of P&O interventions for people with physical disability. She has more than 56 publications and frequently is invited to speak and conduct specialty courses about P&O throughout the USA and internationally.

Ryan Caldwell, CP/L, FAAOP, Research Prosthetist, Visiting Fellow, NUPOC, Physical Medicine and Rehabilitation, Feinberg School of Medicine, Northwestern University.
Email: ryan.caldwell@northwestern.edu
Mr. Caldwell is a prosthetist who specializes in Vacuum and Subischial Socket Technology, and is the primary developer of the socket technique developed by the DOD-funded project “Development of Subischial Prosthetic Sockets with Vacuum-Assisted Suspension for Highly Active Persons with Transfemoral Amputations” (#W81XWH-10-0744). He completed his prosthetics and orthotics (P&O) training at NUPOC, is an ABC-Certified Prosthetist, and a Fellow of the American Academy of Orthotists and Prosthetists. An active clinician since 2001, Mr. Caldwell is a prosthetist at Scheck & Siress Prosthetics, Orthotics and Pedorthics (Schaumburg, IL). He teaches vacuum technology at NUPOC, has taught in the Physical Therapy Program at Oakton Community College, and frequently presents at professional meetings.

John Brinkmann, MA, CPO, FAAOP, Assistant Professor, NUPOC, Physical Medicine and Rehabilitation, Feinberg School of Medicine, Northwestern University.
Email: john.brinkmann@northwestern.edu
Mr. Brinkmann joined NUPOC in 2012 after providing clinical services for more than 20 years and managing multiple P&O practices. He completed a BS in Orthotics and Prosthetics at University of Texas Southwestern in 1990 and a MA at Trinity Evangelical Divinity School (Deerfield, IL). He received a Searle Fellowship through Northwestern University and worked on “Establishing Criteria for Transtibial Impression Assessment”. He sits on the AAOP Board of Directors, is immediate past chair of the Academy Gait Society, and directs the AAOP Midwest Chapter.

Mike Cavanaugh, CPO, Lecturer, NUPOC, Physical Medicine and Rehabilitation, Feinberg School of Medicine, Northwestern University.
Email: michael.cavanaugh@northwestern.edu
Mr. Cavanaugh joined NUPOC in 2014. He is a graduate of NUPOC P&O programs and an ABC-Certified Prosthetist-Orthotist. He has 9 years of clinical experience, in addition to his background in industrial engineering and education course design. He has served as a preceptor for P&O graduate students and a mentor for P&O residents.

Course Registrar/Organizer: R. J. Garrick, PhD, NUPOC, Physical Medicine and Rehabilitation, Feinberg School of Medicine, Northwestern University.
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