

Northwestern University Prosthetics-Orthotics Center
 680 North Lake Shore Drive, Suite 1100
 Chicago, IL 60611
 Telephone 312-503-5700
www.nupoc.northwestern.edu

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

Day 1	
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)
Day 2	
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

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NU-FlexSIV Socket Course Personnel

Stefania Fatone, PhD, BPO(Hons), Associate Professor, NUPOC, Physical Medicine and Rehabilitation, Feinberg School of Medicine, Northwestern University.

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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.

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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(D), Assistant Professor, NUPOC, Physical Medicine and Rehabilitation, Feinberg School of Medicine, Northwestern University.

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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.

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Mr. Cavanaugh joined NUPOC in 2014. He is a graduate of NUPOC P&O programs and an ABC-Certified Prosthetist-Orthotist. He has 10 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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