

The Ohio Chapter — AAOP
2004 Annual Spring Technical Meeting

April 24, 2004



The Ohio Chapter-AAOP
2004 Annual Spring Technical Meeting

*April 24, 2003
Hilton Hotel—Columbus*

Agenda

~~ Morning Session ~~

8:15 AM Registration and Exhibit hall

9:00 – 9:15 AM Opening Remarks

Bill Neu, CP, Ohio Chapter— AAOP President
Hanger Prosthetics and Orthotics, Inc.

9:15 – 9:45 AM Update from ABC

Cathy Carter, Director of Professional Credentialing
American Board for Certification in Orthotics and Prosthetics

9:45 – 10:30 AM Break/Exhibits

**10:30 – 11:00 AM AOPA Governmental Relations Update and Medicare Modernization Act of 2003
(Medicare Prescription Bill)**

Jon Leimkuehler, CPO, FAAOP, Immediate Past President, AAOP
Union Orthotics & Prosthetics, Co. — Pittsburgh, PA

**11:00 – 11:30 AM Clinical Comparison of Stance Control KAFO's (Horton, E-Knee, Freewalk,
UTX, Fillauer)**

Steven Whiteside, CO
Hanger Prosthetics and Orthotics, Inc. — Tucson, AZ

11:30 – 1:00 PM Lunch and Exhibits

~~ Afternoon Sessions ~~

Orthotic Session

12:30 – 2:30 PM Certification Class for the Becker E-Knee

Gary G. Bedard, CO, FAAOP
Becker Orthopedic — San Mateo, CA

2:30 – 3:15 PM Break/Exhibits

3:15 – 4:30 PM Certification... (cont.)

Prosthetic Session

- 1:00 – 1:45 PM Evolution of the Transfemoral Socket**
Kevin Carroll, CP, FAAOP
Hanger Prosthetics & Orthotics, Inc. — Oklahoma City, OK
- 1:45 – 2:30 PM Latest Developments in Myoelectrics**
Steve Mandacina, CP
Hanger Prosthetics and Orthotics — Lee's Summit, MO
- 2:30 – 3:15 PM Break/Exhibits**
- 3:15 – 4:00 PM A Practitioner's Perspective of Otto Bock's ETS System for Trans Tibials**
Joel Kempfer, CP, FAAOP
Kempfer Prosthetics Orthotics, Inc. — Greenfield, WI
- 4:00 – 5:00 PM An Overview of Pediatric Prosthetics**
John Stephenson, CP, LP
Scottish Rite Hospital for Children — Dallas, TX

Pedorthic Session

- 1:00 – 1:45 PM Therapeutics Footwear Bill**
Ross Marty, C.Ped, BOC-O
ACOR Orthopaedic, Inc. — Cleveland, OH
- 1:45 – 2:30 PM Physics: A Framework For Understanding Pedorthic Applications**
George Layton Trimble IV, CP, L.Ped.
PEL Supply, Inc. — Cleveland, OH
- 2:30 – 3:15 PM Break/Exhibits**
- 3:15 – 5:00 PM The Practical Benefits of Using CAD/CAM Technology for the Design of Custom Foot Orthoses: A Hands-on Workshop.**
Chuck Greene, C.Ped.
University of Michigan Orthotics and Prosthetics Center — Ann Arbor, MI

Technical Session

- 1:00 – 2:30 PM Fabrication Techniques for Stance Control KAFOs**
Chris Long, RTO
Geauga Rehabilitation Engineering Company — Chardon, OH
- 2:30 – 3:15 PM Break/Exhibits**
- 3:15 – 4:00 PM Endolite's Static Alignment and Transfer in Production**
Malcolm Owen, Technical Advisor
Endolite North America, Ltd. — Centerville, OH
- 4:00 – 4:30 PM Myoelectric Fabrication**
Frank J. Zingales, RTP, BOC-P
Hanger Prosthetics & Orthotics, Inc. — Maple Heights, OH
- 4:30 – 5:00 PM Tech Tips at Your Fingertips**
Mark Joyce, RTO, CO
Creative Prosthetics Orthotics — Grand Rapids, MI

Mastectomy and Fitter Session

- 1:00 – 2:30 PM Introduction to the Custom Breast Prosthesis**
Patrice Sobcznski, Manager, Breastcare Training
Camp Healthcare — Jackson MI
- 2:30 – 3:15 PM Break/Exhibits**
- 3:15 – 5:00 PM Introduction... (cont.)**
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Program

GENERAL SESSIONS

Update from ABC

Cathy Carter

*Director of Professional Credentialing
American Board for Certification in Orthotics
and Prosthetics, Alexandria VA*

AOPA Governmental Relations Update and Medicare Modernization Act of 2003 (Medicare Prescription Bill)

Jon Leimkuehler, CPO, FAAOP
*Immediate Past President, AAOP
Union Orthotics & Prosthetics Co., Pittsburgh, PA*

Program Description:

This presentation will cover the critical provisions of the recently passed Medicare reform law now known as MMA (the Medicare Modernization Act of 2003). Also AOPA's legislative and regulatory agenda for 2004 will be discussed, taking aim at competitive bidding, Medicare payments freeze, and future challenges facing the O and P.

Biographical Statement:

I am past president of the Ohio and Pennsylvania Chapters of the Academy, The Pennsylvania Orthotic Prosthetic Society, ABC and AOPA.

Stance Phase Knee Joints: A practical report

Steven Whiteside, CO, FAAOP
Hanger Prosthetics and Orthotics, Inc., Tucson, AZ

Program Description:

The new technology of stance phase knee joints has offered patients with sagittal plane anterior knee instability the opportunity to have a more normal gait and energy efficient gait. Parameters for patient selection and application of the technology are defined in the manufacturer's patient assessment/selection guidelines. Both enthusiasm to use the technology and not having a complete understanding of the application principles of the design can potentially cause significant frustration for both the patient and practitioner.

The presentation will outline specific patient/practitioner complications as a result of "charging ahead" without the proper understanding of the new stance phase knee joint technology. Becker, Otto Bock and Fillauer knee joint systems will be presented. The intention of this presentation is to assist those with little or no understanding of the new technology to minimize both the patient's and practitioner's frustrations when applying the new knee joint designs.

Biographical Statement:

Steven R. Whiteside is an ABC certified orthotist. He served as the ABC president in 2002. Prior to his presidency he was Chair of the Practice analysis in the disciplines of orthotics and prosthetics task force.

He served on the Scope of Practice Committee. He pioneered the redesign of the ABC Orthotic & Prosthetic Clinical Patient Management Exam. He continues to be a member of the orthotic exam development team. Mr. Whiteside is an Academy Award winner receiving the Academy's Clinical Commitment Award in the year 2000. In addition, he is a Fellow of the Academy.

AFTERNOON BREAKOUT SESSIONS

Orthotic Session**Certification Class for the
Becker E-Knee**

Gary G. Bedard, CO, FAAOP
Becker Orthopedic, San Mateo, CA

Program Description:

The E-Knee Certification Seminar will focus on the development and clinical application of the E-Knee, the electromechanically controlled stance control knee joint available from Becker Orthopedic. This joint facilitates natural gait progression using a pressure sensitive footplate combined with an electromagnetically controlled locking device in the joint to lock the joint in stance and allow motion in swing.

With the introduction of this new joint it is important that practitioners know if this joint is going to be suited for their patient. It is important for them to learn the technique needed to measure and fit this joint. Based on the patient diagnosis, muscle strength and coordination, the attendees of this seminar will learn if this new joint will work for their patient and learn to fit this joint and learn all technical aspects.

Biographical Statement:

Gary G. Bedard is certified in orthotics by the American Board of Certification. He is a graduate of the University of Washington, possessing a Bachelor of Science degree with majors in prosthetics and orthotics. He has passed civilian boards for nursing and EMT licenses and certification.

Mr. Bedard has been involved with various education programs for the American Academy of Orthotists and

Prosthetics including thermoforming instructor for the Material Science Course in the Institutes of Professional Development and the Materials Science Workshop.

In 1997, Mr. Bedard served as program coordinator, on-site coordinator, and presenter for the Materials Science Continuing Education Conference in Tampa, Florida. He has served as Chairman of the Lower Limb Orthotics Society, a member of the Continuing Education Committee, and Vice Chairman on the 1998 Associate/Technician Education Task Force and Scientific Societies Council. Mr. Bedard is also co-founder of the Fabrication Sciences Society and is the current chairman. In 1999, Mr. Bedard was selected as Educator of the Year and is a Fellow of the Academy.

As Clinical Marketing Manager for Becker Orthopedic, Mr. Bedard has been teaching didactic and practicum based seminars at all of the orthotic education schools in the United States on an annual basis for the past seven years. He has also taught advanced thermoforming, thermoplastic composite, and lower limb orthotic fabrication courses in Canada, Mexico, Guatemala, Panama, Australia, Germany, England, Holland, Norway, Finland, Spain, Yugoslavia, and Saudi Arabia.

Prosthetic Session**Evolution of the Transfemoral Socket**

Kevin Carroll, CP, FAAOP
*Hanger Prosthetics and Orthotics, Inc.,
Oklahoma City, OK*

Program Description:

The evolution of transfemoral socket design has taken place over hundreds of years, beginning with a generic plug type socket and evolving into highly contoured socket systems. Somehow in recent years a few designs have returned to less defined shapes.

It is important to understand where we've come from and why we sometimes utilize shapes of the past.

Biographical Statement:

Kevin's guiding philosophy is simple: people first. This has served him well in his clinical consultations with thousands of prosthetic consumers across the world. By listening to each person's thoughts and concerns, and understanding their unique situations, Kevin has found a sure path to assisting people in their rehabilitation. He specializes in the care of older adults and also has a degree in gerontology, enhancing his expertise in this area.

Kevin's practice began in his native country of Ireland in 1978 at the National Medical Rehabilitation Center in Dublin. In 1984 he moved to the United States, and is Vice President of Prosthetics for Hanger Prosthetics & Orthotics the largest provider of prosthetic care in the world.

Kevin's commitment to improving prosthetics has placed him at the forefront of numerous prosthetic breakthroughs. He is the co-developer and researcher in the continuing development of the ComfortFlex™ Socket System; a highly bone and muscle contoured socket that has revolutionized prosthetic design and comfort. He is also engaged in the development of the **Sense of Feel and Hot and Cold Sensory Systems**, and the **Neuropathic Foot Protection System** for diabetics.

Kevin has 26 years of experience as a practicing Prosthetist. His professional background encompasses the roles of researcher, educator, international speaker, and clinician. He is an ABC Certified Prosthetist and has been named a Fellow of the American Academy of Orthotics and Prosthetics, one of the highest honors of the profession. He is a member of the International Society for Prosthetics and Orthotics and is a professional advisor for the Amputee Coalition of America and a member of the National Association of Professional Geriatric Care Managers; Kevin is also a member of the British Association of Prosthetics and Orthotics (BAPO).

Latest Development in Myoelectrics

Steve Mandacina, CP

*Hanger Prosthetics and Orthotics,
Lee's Summit, MO*

Program Description:

Since Steve Mandacina's last presentation at the Ohio Academy meeting there have been some remarkably significant advances in myoelectrics. Most of these advances are in batteries that are lighter and smaller, electrodes which filter out noise and inadvertent signal and are much smaller and lighter, and electric hands and hooks which are also smaller and lighter. Additionally, advances in pediatrics are allowing children to be fit with myoelectrodes very successfully at a young age. Not much has changed with socket design, but since it is the most important part of the prosthesis, a brief review will take place. All of these factors are leading to higher success and functional outcomes with myoelectrodes.

Biographical Statement:

Mr. Mandacina received his Bachelor of Science degree in Biology from Creighton University, and then attended University of Connecticut-Newington Prosthetics Program. He is currently the National Upper Extremity Specialist with Hanger's Upper Extremity Team. He is experienced in fitting all levels of upper extremity prosthetics and educated on virtually all componentry available. His specialties include socket design and fabrication, along with the latest developments in upper extremity electronic prosthetics such as the Boston Elbow 3 and ProControl 2. He lectures, educates, and demonstrates to patients, therapists and physicians nationwide.

CAD-CAM, A Practitioner's Perspective Of The Otto Bock's Transtibial & Transfemoral ETS System

Joel Kempfer, CP, FAAOP

Kempfer Prosthetics Orthotics, Inc., Greenfield, WI

Program Description:

This session will be a demonstration of the practical application of this system in an everyday prosthetics practice. Kempfer will take impressions of an actual patient, download the information, and rectify several shapes for varied results. He will also address the pros and cons of utilizing this system versus conventional means.

Biographical Statement:

Joel Kempfer CP FAAOP is President of Kempfer Prosthetics Orthotics Inc. in Greenfield Wisconsin. He is current President of the Midwest Chapter AAOP, Immediate Past President of the O&P Assistance Fund, Examiner for the ABC Clinical Patient Management Examination, Member of the Academy's O&P Awareness Committee, and sits on the O&P Almanac's Advisory Committee

An Overview of Pediatric Prosthetics

John Stephenson, CP, LP

Scottish Rite Hospital for Children, Dallas, TX

Program Description:

John Stephenson's session will discuss both upper and lower limb considerations. The presentation will also address different fitting protocols and developmental milestones unique to the pediatric population. This will include information about surgical, treatment options and team related decisions. John will also examine some of the latest pediatric components and trends.

Biographical Statement:

Stephenson received his B.A. degree from Texas A&M University in 1988 and received a certificate in prosthetics from Northwestern University in 1991. He received his Certification in Prosthetics in 1993 from the American Board for Certification. Currently, John is the clinical coordinator of the prosthetics department at the Texas Scottish Rite Hospital for Children and has been employed there for the past twelve years. John also has been involved in several Paralympic Games as a volunteer prosthetist including the games in Atlanta, Sydney, Australia and Salt Lake City. Most recently, he served as the team prosthetist at the World Track and Field Championships in Lille, France in 2002.

Pedorthic Session

Therapeutics Footwear Bill

Ross Marty, C.Ped, BOC-O
ACOR Orthopaedic, Inc. Cleveland, OH

Program Description:

Frequently we encounter customers with difficult-to-fit feet; this problem is complicated when diabetes is entered into the equation. Something as simple as ill-fitting footwear can be catastrophic. Realizing this, Medicare introduced the Therapeutic Footwear Program. With the recent enhancements to the program, the modalities of which you have to choose from are vast. With adequate exposure to innovative techniques and appropriate products at hand, the sales person is empowered with the tools necessary to make a difference to both the customer and the bottom line. This presentation will demonstrate the different conditions of diabetes and how to apply the modality best suited

Biographical Statement:

Ross Marty is a Certified Pedorthist, Board for Orthotic Certification Orthotist, Orthopaedic Shoe Technician and is Director of Clinical Education for Acor Orthopaedic. Ross is an experienced instructor, with over 18 years of Pedorthic experience. He has conducted seminars throughout North America and is on staff at several universities as a Pedorthic instructor.

Physics: A Framework For Understanding Pedorthic Application

George Layton Trimble IV, CP, L.Ped.
PEL Supply, Inc., Cleveland, OH

Program Description:

The presentation will explore one-dimensional kinematics, including scalars, vectors, distance, displacement, speed, velocity and acceleration. The three laws of Newton will be defined and explored: the laws of inertia, force, and action-reaction coupling. Vectors will be described, as will the concept of torque. Armed with these fundamental concepts, the idea of a resultant force vector in relation to joint position in human gait will be introduced with an emphasis on the torque created at the joints and the muscular reaction to this rotational moment. Finally, the foregoing concepts will be used to describe the functioning of a SACH heel in pedorthic and prosthetic application.

Biographical Statement:

George Trimble, CP, L.Ped. got his start in the O&P industry in 1991 working at Carefree Footwear in Las Vegas, Nevada. There, among other things, he learned to

make custom shoes by hand. By 1993, he was board certified in pedorthics. George moved to Cleveland, Ohio in 1996 to work for ACOR Orthopaedic as a staff pedorthist. After ACOR sold their patient-care facilities, he worked for Hanger Prosthetics & Orthotics. George was certified in prosthetics in 1998. He eventually returned to ACOR's manufacturing business and became Director of Marketing and Clinical Education. George left ACOR in August 2001 to pursue a Bachelor of Science degree in chemistry. He graduated Magna Cum Laude from Baldwin Wallace College in Berea, Ohio in 2002. He spent the summer following graduation doing research in physical chemistry prior to attending one year of medical school at Northeastern Ohio College of Medicine. He is the recipient of the American Chemical Society Undergraduate Award in organic chemistry. George is now Vice President, Director of Operations of PEL Supply Co. in Cleveland, Ohio.

The Practical Benefits of Using CAD/CAM Technology for the Design of Custom Foot Orthoses: A Hands-on Workshop

Chuck Greene, C.Ped
University of Michigan Orthotics and Prosthetics Center, Ann Arbor, MI

Program Description:

This session will give a brief overview of the current market for custom foot orthoses and compare the cost of in-house fabrication and out-sourced fabrication. The benefits of CAD/CAM production will be reviewed.

Session participants will be given hands-on (and feet-on) experience using a contact digitizer. Digital images of feet will be interpreted and modified using system software.

Biographical Statement:

Chuck Greene joined the University of Michigan Orthotics and Prosthetics Center staff in December, 1995 as the only C.Ped. among a clinical staff of ten. The Center has since added two more C.Peds. and the clinical staff has grown to fourteen. Greene leads the pedorthics program under the direction of Mark Taylor, CPO, who is the Clinical Director.

Greene's first formal training in pedorthics was in 1989 at Ball State University and, following other course work through PFA at the Medical College of Wisconsin, became certified in 1995.

Before coming to the University of Michigan, Chuck supervised the O&P lab for Fordson Health Care (later at Hanger Orthopedic of Michigan) in Jackson, Michigan where he did technical work as well as pedorthic work

from 1988 to 1995. Previously, Greene spent five years as supervisor of the R&D lab at Camp International, also in Jackson.

Technical Session

Fabrication Techniques for Stance Control KAFOs

Chris Long, RTO

*Geauga Rehabilitation Engineering Company,
Chardon, OH*

Program Description:

The E-Knee is one of the newest, technically advanced pieces of orthotic componentry on the market today. A practitioner using the E-Knee is required to attend a certification seminar to familiarize them with the function and clinical application of the Joint. Unlike traditional orthotic componentry, the E-Knee system benefits from the technician having a greater role in customizing the orthoses' function to individual patients. The goal of this presentation is to familiarize technicians with the unique characteristics of the E-Knee model 9001kit. The topics will include the function of the completed orthoses and its effect on gait patterns, basic KAFO fabrication, techniques specific to the E-Knee, technical breakdown of the five piece kit, foot sensor modification and troubleshooting.

Biographical Statement:

Chris Long was hired in 1989 to train as an orthotic/prosthetic technician with ACOR Orthopedic in Cleveland, Ohio. He was trained and worked in all aspects of custom fabrication for upper, lower and spinal orthoses as well as orthopedic shoe modification. Currently, Long works at Geauga Rehabilitation Engineering Inc., as lead orthotic technician undertaking full orthotic fabrication duties along with technical assistance in research and development of new orthotic componentry.

Working with Jonathan Naft, CP, BOCO, for the past two years on the continuing development of the Becker E-Knee, Long assisted in the design and function of the E-Knee foot sensor and performed "in the field" troubleshooting of the prototype designs of the joint as well as the commercially available model 9000. Chris tested numerous modifications to the joint along with different fabrication considerations providing "from the field" input to engineers at Becker. Long has independently fabricated Approximately 10 KAFOs utilizing the Becker E-Knee and taking part in the fitting and adjusting as well.

Endolite's Static Alignment and Transfer in Production

Malcolm Owen, Technical Advisor

Endolite North America, Ltd., Centerville, OH

Program Description:

To show procedure and process of transfer from negative cast wrap to production of mold to final preparation for drape or laminating in production of both AK and BK sockets, maintaining original alignment, allowing for further adjustments to be made from either Endolite Full alignment, allowing for angulation rotation and linear shift capabilities, or the Four hole pyramid systems allowing for angulation and rotation capabilities.

This process also allows for the systems of Endolite Knees to be catered for and allowances in build length to be maintained to ensure correct limb height builds, from wall frame to final finish.

Biographical Statement:

Malcolm has worked for over 15 years with Chas. A Blatchford & Sons Ltd, manufacturers of Endolite products in the UK, who own and distribute high quality prosthetic lower limb components in America. Malcolm has been in the United States since September 1995 working with the company and supplying valuable technical and training support for all customers. He previously worked at a patient care facility in Stanmore, London where he was a supervisor.

Some of his responsibilities at Endolite North America are to educate and train new and existing customers/practitioners in fabricating and fitting techniques of Endolite products.

In the recent years he has traveled extensively to facilities within the United States and Canada completing Endolite training seminars and providing educational support for regional shows nationwide.

Myoelectric Fabrication

Frank J. Zingales, RTP, BOC-P

Hanger Prosthetics & Orthotics, Inc., Maple Heights, OH

Program Description:

This session will be about the clinical benefits of upper extremity fabrication; how it can help the technician make the right decision to keep function and cosmetics in hand while allowing for easy adjustments by the prosthetist. Also Zingales will be reviewing how to fabricate with various componentry in one single lamination, and what kind of materials to fabricate with and how they benefit the function of the devices, along with structural integrity and weight.

Biographical Statement:

Frank Zingales has been in the field since 1987. He started as a technician with PEL Central Fabrication where he learned the craft of making prostheses. In 1992, Zingales created the prosthetic fabrication department of ACOR, (which is now Hanger Prosthetics), then became a registered technician. In 1998 he became a BOC prosthetist and now manages three offices for Hanger Prosthetics.

Frank gives Annual talks on prosthetic developments and theory of componentry to the senior and graduate students from Case Western University. He also does this for the resident medical students and staff for South Point Hospitals of the Cleveland Clinic Foundation. He has been invited to sponsor and speak for the Cleveland Vascular Society meeting as well. Also, he has been elected to the Ohio Chapter Board of Directors in 2003 and looks forward to working with the members of the academy in order to provide the education benefits and symposia that have made the Ohio Chapter so respected and successful in the past.

Tech Tips at Your Fingertips

Mark Joyce, RTO, CO

Creative Prosthetics Orthotics, Grand Rapids, MI

Program Description:

oandptech.com is a web site supported by a discussion forum based on all aspects of fabrication regarding prosthetics and orthotics. The forum features a broad list of categories for each discipline with sub-categories covering different areas such as upper extremity, lower extremity, etc.. The forum has over 600 registered members and more than 2,000 posts related to fabrication/technical issues. There are several shortcuts and search tips one can use to locate information about a specific topic without having to read through post after post. This demonstration will illustrate the basic features of the discussion board and how to use the search functions to find information.

Biographical Statement:

As the son of a certified orthotist, Mark Joyce grew up in the lab and worked as an orthotic apprentice in his early teens. Joyce completed his certificate course through the USAF and went on to become registered as an orthotic technician. At the same time, he worked to complete his associate degree prior to becoming a Certified Orthotist. Mark has worked in the field full time for the last 24 years and became interested in web development in 2001. Mark has been involved in computers as long as they have been around and considers them to be as important a tool as bending irons. Mark believes that computers will continue to play a large role in the future of O & P and plans to advance in his career in information technology.

Mastectomy and Fitter**Introduction to the Custom Breast Prosthesis**

Patrice Sobcznski, Manager, Breastcare Training
Camp Healthcare, Jackson MI

Program Description:

This program will include a short history of post-mastectomy products. The session will discuss the importance of client expectations, how to mark the chest wall and cast. A mannequin will be displayed with all the markings on it as well as a mannequin that has been cast. The group will go through the process of casting, what needs to be in the fitting room and the supplies needed. There will also be a brief discussion about insurance and profitability.

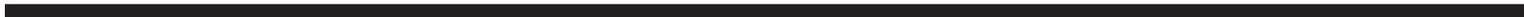
If the group is made up of females (or if the males don't mind leaving before the females), Sobcznski will demonstrate what the custom forms look like on an actual person.

This will not be the complete program, but will be enough information that the attendee will know what to expect from the full day training.

Biographical Statement:

(ABC registered fitter mastectomy and BOC certified mastectomy fitter)

Patrice Sobcznski is the breast care training manager for CAMP healthcare. She has been involved with the post-mastectomy products industry since 1991. As a 14 year breast cancer survivor she is particularly qualified to give the program attendee the perspective of the fitter as well as the survivor.



Exhibitors

ACOR Orthopaedic, Inc.

18530 South Miles Parkway
Cleveland, OH 44128
Phone: 216/662-4500 -- Ext. 130
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Toll-Free: 800/237-2267
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Aircast, Inc.

92 River Road
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Fax: 908/598-1647
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E-mail: tammiw@aircast.com
Web: www.aircast.com

Description:

Aircast® products provide a dynamic system for the functional management of wound and musculoskeletal injuries. The Air-Limb™ is a prosthetic device used after amputation. Its adjustable protective shell comes in on universal size for the off-the-shelf convenience, provides easy access for wound inspection, has an extra-wide opening, and accommodates edema changes, dressing reductions and bulbous limbs. The Air-Limb™ also provides a patented duplex aircell design, a suspension sleeve, and a specialized hand bulb.

The Walking Brace and Diabetic Walker provide protection formerly expected only from a cast, compression to reduce edema, custom-inflated aircells, and a rocker sole to reduce plantar pressures.

ALPS South Corporation

2895 42nd Avenue, North
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Web: www.easyliner.com

Description:

ALPS is a manufacturer of prosthetic devices, including liners and suspension sleeves, for the prosthetic industry. ALPS combines excellence in engineering and materials science with the prosthetists's clinical knowledge to make products which are unsurpassed in durability and comfort when compared to similar products. ALPS' superior warranties demonstrate our confidence in the level of quality of our products. Continuing the ALPS tradition of producing innovative products and providing exceptional service will further demonstrate ALPS as a premier provider of prosthetic devices.

Amfit, Inc.

5408 NE 88th St., D-406
Vancouver, WA 99865
Phone: 360/573-9100
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Toll-Free: 800/356-3668
E-mail: gbruce@amfit.com
Web: www.amfit.com

Description:

Amfit is the recognized leader in automated foot-orthotic systems. Our computerized casting and fitting system gives you complete control over the design and function of your custom orthoses.

Amfit technology is unique because of its method of "Contact Digitizing", the most effective method of casting for the purpose of fabricating a custom foot orthoses. Amfit custom orthotics automatically eliminate pressure points and distribute weight more evenly, when the foot is positioned and scanned on the digitizer in a corrected position. Results are automatic.

The Amfit system will save you valuable time, eliminate traditional hassles, and give you a new standard of control over the entire foot orthotic fitting process in your practice.

Anatomical Concepts, Inc.

493 Bev Road, Bldg. 4
Boardman, OH 44512
Phone: 330/758-3888
Fax: 330/758-1760
Toll-Free: 800/837-3888
E-mail: mpbprafo@aol.com
Web: www.PRAFO.com

Description:

Anatomical Concepts, Inc., is the manufacturer of the PRAFO® family of orthoses. This family consists of the PRAFO®, APU® (ADJUSTABLE POSTERIOR UPRIGHT), PKA (POSTERIOR KAFO ATTACHMENTS), EV (VARUS VALGUS ACCOMMODATING UPRIGHT), DDA (DYNAMIC DORSI-ASSIST) and the all new D (DUAL ACTION). Many of these orthoses are available in pediatric and infant sizes. These orthoses are made of a single metal upright, which is infinitely adjustable assuring a true custom fit. These devices are purposely designed to be used on the ambulatory as well as the reumbant patient population. The PRAFO® can offset equinus, provide dorsiflexion assist, and help provide for safe, functional ambulation and serve as a suitable gait training orthosis for your patient.

Becker Orthopedic

635 Executive Drive
Troy, MI 48083
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Bionix Prosthetic Solutions

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E-mail: gthrone@bionix.com
Web: www.bionix.com

Description:

Bionix Prosthetic Solutions — Innovative, time saving products for Prosthetists.

Bionix RapidFit® products include:

- ◆ Flexion Lock Adapters and Flexion Integrated Locks — Available in 5°, 10° and 15° of preset flexion with built in length offset for A/K's.
- ◆ Standard Adapters and 12-Hole Lock Adapters Removable, Permanent Thermoplastic and Laminate Adapters for a time saving, systematic approach to patient management.
- ◆ Bionix HP Knee — High performance, smooth-action, single axis knee joint that work with CaTech Short Swing or CaStance Hydraulic unit.
- ◆ Accessories — Including the *New Quad Control Band*, *Donning Aids*, and *AlignRight Sets* are available.

BOLT Systems, Inc.

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Orlando, FL 32804
Phone: 407/425-0012
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Toll-Free: 800/425-0012
E-mail: bolt@netprss.com
Web: www.boltsystems.com

Description:

BOLT Systems, Inc., is the manufacturer of prefabricated, custom, metal and leather orthopedic products. Our newest product is the E-Z HUG hyperextension brace. Milwaukee's, HKAFOs, KAFOs, Long Leg Braces, Short leg Braces and metal spinal braces are available from our metal department. C.R.O.S. Walkers are a specialty of our central fabrication department. The Baldwin Brace, leather anklets and leather writs splints are custom-to-cast from our leather department. We offer quality products at very competitive prices.

Boston Brace International, Inc.

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BSN Medical, Inc.

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Bulldog Tools, Inc.

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E-mail: mmeyer@bulldogtools.com
Web: www.bulldogtools.com

Cailor Fleming & Associates, Inc.

4610 Market St.
Youngstown, OH 44512
Phone: 330/782-8068
Fax: 330/782-0458
E-mail: dfoley@cailorfleming.com
Web: www.cailorfleming.com

CAMP Healthcare

2010 E. High Street
Jackson, MI 49203
Phone: 517/789-3209
Fax: 800/245-3765
Toll-Free: 800/788-2267
E-mail: szuverread@camphealthcare.com
Web: www.camphealthcare.com

Description:

CAMP Healthcare focuses on the orthopedic, prosthetic and pressure relief market segments by providing technologically differentiated product solutions that meet the changing needs of healthcare consumers.

College Park Industries, Inc.

17505 Helro Drive
Fraser, MI 48026
Phone: 586/294-7950
Fax: 586/294-0067
E-mail: angela@college-park.com
Web: www.college-park.com

Description:

The College Park TruStep® Foot restores a more natural gait and enhanced physical capacity to community ambulators, as well as sports enthusiasts.

The College Park TruPer® Foot is the first and only multi-Axial, dynamic response foot made just for kids.

The College Park Venture™ Foot successfully integrates high performance function with a customizable design that is comfortable to wear everyday.

The College Park Tribute™ Foot offers a simple and valuable solution for the dysvascular population. Principles, such as multi-axial and transverse rotation, allow individuals with low to moderate activity levels to enjoy the mobility they need for the freedom they desire.

Comfort Products, Inc.

705 Linton Avenue
Croydon, PA 19021
Phone: 215/781-0300
Fax: 215/785-5737
Toll-Free: 800/822-7500
E-mail: frebern@aol.com

Coyote Designs

542 Addison Ave. West
Twin Falls, Idaho 83301
Phone: 208/736-8671
Fax: 208/735-9246
Toll-Free: 800/819-5980
E-mail: perk@coyotedesign.ws
Web: www.coyotedesign.us

DAW Industries, Inc

6610 Nancy Ridge Drive
San Diego, CA 92121
Phone: 858/622-4955
Fax: 858/457-5088
Toll-Free: 800/252-2828
E-mail: info@daw-usa.com
Web: www.daw-usa.com

DeRoyal Industries, Inc.

200 DeBusk Lane
Powell, TN 30087
Phone: 614/236-4977
Fax: 865/362-6043
Toll-Free: 888/938-7828
E-mail: nhenry@deroyal.com
Web: www.deroyal.com

Description:

DeRoyal is a global supplier of medical products and services with four divisional business units, Acute Care, Patient Care, Wound Care, and OEM (original equipment manufacturer), employing over 2200 people worldwide.

Headquartered in Powell, Tennessee, DeRoyal has 25 manufacturing facilities and offices in six U.S. states (California, Florida, Georgia, South Carolina, Tennessee, and Virginia) and in five other countries (Estonia, Canada, Costa Rica, Guatemala, and Ireland). Among its more than 25,000 products are suction canisters, TracePak unitized delivery systems, custom procedural trays, surgical accessories, surgical safety and critical care products, anesthesia and temperature monitoring supplies, birthing and neonatal care items, angiography and endoscopy products, rehabilitation and therapy products, sports medicine supports, orthopedic bracing and supports, wound care dressings as well as fiberglass and plaster casting.

For additional DeRoyal product information, please call 1/800/DeRoyal (337-6925) or visit the DeRoyal website at: www.deroyal.com

Elite Orthotics, Inc.

360 West Main Street
Evans City, PA 16033
Phone: 724/538-8225
Fax: 724/538-8696
Toll-Free: 877/922-8225

Description:

Elite Orthotics, Inc., is located in Evans City, Pennsylvania (Just north of Pittsburgh). We offer custom orthotic fabrication to companies that demand the highest quality braces.

When you receive a brace from Elite Orthotics, Inc., it will be delivered on time, finished and expertly buffed. It will be completed the way you ordered thus saving you time and money during fitting.

If you are ready for a higher quality, better fitting brace, plus excellent service, call Elite Orthotics, Inc., you won't believe what you are missing.

Endolite North America, Ltd.

105 Westpark Road
Centerville, OH 45459
Phone: 937/291-3636
Fax: 937/291-0789
Toll-Free: 800/548-3534
E-mail: sueb@endolite.com
Web: www.endolite.com

Engineered Silicone Products

23 Wilson Drive
Sparta, New Jersey 07871
Phone: 973/300-5120
Fax: 973/300-5125
Toll-Free: 888/932-7377
E-mail: lynnesp@erols.com
Web: www.oandp.com/esp

Description:

ESP/Engineered Silicone Products — manufacturers of AEGIS pre-flexed liners, LYN Valves and the pre-flexed FlexiSleeve is introducing TRIO, a customized suction suspension system comprised of choice of liner, BK valve and sleeve

Fillauer Companies, Inc.

PO Box 5189
Chattanooga, TN 37406
Phone: 423/624-0946
Fax: 423/624-1402
Toll-Free: 800/251-6398
Web: www.fillauer.com

Description:

The Fillauer Companies have a long history of providing innovative orthotic and prosthetic solutions. Together, Fillauer, LLC, Hosmer, Motion Control, Center for Orthotics Design, and Centri manufacture, distribute and custom fabricate a wide range of O&P products including: RGOs, the DuraShock Pylon, Endurance Hydraulic Knees, the ETD (Electric Terminal Device), and Dream Skin.

Freedom Innovations, Inc.

7 Studebaker
Irvine, CA 92618
Phone: 909/817-0984
Fax: 909/817-0715
Toll-Free: 888/818-6777
E-mail: shahr@freedom-innovations.com
Web: www.freedom-innovations.com

Description:

Freedom Innovations is featuring the new Runway, the most innovative, user-adjustable heel-height foot in the industry today. Using Freedom's highly advanced patent-pending technology, Runway's simple, push-button adjustment elevates the heel up to 2" in height. Also, come see the "renegade", the industry's lightest, most responsive shock foot, offering unmatched energy return compared to other shock systems and incredibly smooth gait at any speed. Freedom Innovations is an advanced-technology prosthetics company, creating a revolution in motion as a global innovator and leader in evolving prosthetics. Visit Freedom Innovations table, or at www.freedom-innovations.com, or call 888.818.6777.

Freeman Manufacturing Company

900 W. Chicago Road
Sturgis, MI 49091
Phone: 269/651-2371
Fax: 269/651-8248
Toll-Free: 800/253-2091
E-mail: jhagner@freemanmfg.com
Web: www.freemanmfg.com

Description:

Freeman is an established manufacturer and worldwide supplier of orthopedic soft goods. We have two warehouses (one in Michigan and one in California) and two manufacturing facilities. Our products range in diversity from a full line of back support garments and spinal braces to home healthcare products, extremity supports, medical compression stockings, post mastectomy products and lower limb prosthetics supplies.

Futura International, Inc.

22051 US Hwy 19N
Clearwater, FL 33765
Phone: 727/791-3332
Fax: 727/726-7164
E-mail: tlong@futuraintl.com
Web: www.futuraintl.com

Description:

Futura is the premiere office management software for the O&P industry. With HIPAA compliance, and capabilities like PHI control, appointment scheduling, electronic and paper claims submission, wireless capabilities, and complete patient chart tools, Futura software is designed to streamline office operations, as well as separate and secure patient data.

Jerome Medical

305 Harper Drive
Moorestown, NJ 08057
Phone: 856/234-8600
Fax: 856/439-0385
Toll-Free: 800/257-8440
E-mail: carol.winkelspecht@jeromemedical.com
Web: www.jeromemedical.com

Description:

Jerome Medical will demonstrate the Miami JTO™ Thoracic Extension. Adaptable to Miami J® Collars, this innovative tool-free combination extends your control by providing additional stabilization. For your pediatric patients, Miami Jr.® Collars provide sizing options specifically for children from infant through twelve years old. Check out the V₁® Halo for a system that maximizes your options while protecting your patient. Numerous pin sites and exceptional adjustability will make the V₁ your choice for halo traction. The Low Profile Superstructure makes it easier for patients to enter and exit automobiles.

Jim Smith Sales, Inc.

PO Box 1507
Laurie, MO 65038
Phone: 573/374-1550
Fax: 573/374-1239
Toll-Free: 800/826-2334
E-mail: stevesmith@jimsmithsales.com
Web: www.jimsmithsales.com

JMS Plastics Supply, Inc.

3535 Rt. 66W, Building #4
Neptune, NJ 07753
Phone: 732/918-8115
Fax: 732/918-1131
Toll-Free: 800/342-2602
E-mail: steve@JMSplastics.com
Web: www.jmsplastics.com

Description:

JMS Plastics carries a full range of materials from Graphites to foams. Our product line has the Advance shoe, comfort and Orthopedic styles. We carry J-Turf in two rigidities, TL-BLUE II Fiberglass shoe shanks, along with a complete line of EVA's and insoles.

NuSpine Medical Technologies

212 South State St.
Westerville, OH 43082
Phone: 614/901-9168
Fax: 614/901-9178
E-mail: mrnuspine@aol.com

Description:

NuSpine Medical Technologies is the exclusive Distributor for Advanced Orthotic Designs in Ohio, Michigan, and Indiana.

On display will be the "Lace IT", L.S.O. product line.

The "Lace IT" L.S.O. products provide complete comfortable care for pre-and post-operative patient compliant support.

Our proprietary line of products featuring a BI-Pull lace design allow for amplification of patient closing strength with increased abdominal compression. Each brace conforms to the sagittal and transverse plane ensuring proper fit and patient compliance.

O & P Enterprises, Inc.

3989 Grove Ave.
Gurnee, IL 60031
Phone: 847/662-9913
Fax: 847/662-9931
Toll-Free: 800/666-0356
E-mail: opent@aol.com
Web: www.oandpenterprises.com

O&P Enterprises provides superior quality thermoplastics to the O&P industry, using all virgin resin. Additionally, we stock prosthetic components, porolated and non-porolated foam, PVA bags, "The Plaster Trap", saw repair service, cast saw blades, OPE vise, vacuum pumps, and routers, as well as other tools, equipment and supplies used in O&P fabrication labs.

Our staff can also provide technical assistance and support to our customers. We invite you to stop by our table to see products fabricated from our outstanding materials.

Ohio Willow Wood Co.

15441 Scioto Darby Road
Mt. Sterling, OH 43143
Phone: 740/869-3377
Fax: 740/869-4374
Toll-Free: 800/553-3445 -- Ext. 114
E-mail: tamib@owwco.com
Web: www.owwco.com

Description:

With a focus on people, Ohio Willow Wood strives to offer comfort, performance, quality and simplicity in its products. Committed to providing educational opportunities, efficient and economical tools for practitioners, the company continues to make innovative technological advancements in the prosthetic industry allowing others to free the body... free the spirit.

OPTEC, Inc.

975 Progress Circle
Lawrenceville, GA 30043
Phone: 770/513-7380
Fax: 877/288-4197
Toll-Free: 888/982-8181
E-mail: opteccorp@aol.com
Web: www.opteccorp.com

Description:

OPTEC, Inc. is a central fabrication facility with a primary focus on spinal and hip orthoses. Our mission is to raise the bar of orthotic fabrication and customer support to meet and exceed our customers' expectations. We endeavor to set the benchmark by implementing the latest in technology, research and development, production methods, raw materials and finished products. We strive to become a true partner and extension of our customers' labs by providing the very best value in the industry. Our quality products help you get it right the first time, thus saving time and money in adjustments, plus increasing patient satisfaction.

Orthomerica Products, Inc.

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Phone: 407/290-6592
Fax: 800/638-9259
Toll-Free: 800/446-6770
E-mail: bjohnson@orthomerica.com
comsteelhead211@msn.com
Web: www.orthomerica.com

Orthopedic Products Sales

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Naples, FL 34019
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Fax: 239/594-5666
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E-mail: timflanagan@ops-usa.com
Web: www.ops-usa.com

OSSUR

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Aliso Viejo, CA 92656
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Fax: 949/360-3755
E-mail: jschneider@flexfoot.com
Web: www.ossur.com

Description:

Ossur is a worldwide leader in the development, manufacturing, distribution and marketing of innovative prosthetic and orthotic technology, the company's advancements offer people a life without limitations. Ossur's products include Iceross® liners, Flex-Foot® product line, Mauch® and Total Knee® systems and Generation II knee braces.

OSTEO Solutions, LLC

1755 Northwest Blvd.
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Fax: 614/485-9792
Toll-Free: 800/901-9969
E-mail: sromtom@aol.com

OTS Corporation

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Weaverville, NC 28787
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Fax: 828/658-8363
Toll-Free: 800/221-4769
E-mail: steve@ots-corp.com
Web: www.ots-corp.com

Otto Bock Health Care

Two Carlson Parkway N. Suite 100
Minneapolis, MN 55447
Phone: 763/519-9464
Fax: 763/519-6153
Toll-Free: 800/328-4058
E-mail: tracy.bowman@ottobockus.com
Web: www.ottobockus.com

Pel Supply Company

4666 Manufacturing Road
Cleveland, OH 44135
Phone: 216/267-5775
Fax: 216/267-6176
Toll-Free: 800/321-1264
E-mail: customerservice@pelsupply.com
Web: www.pelsupply.com

Description:

PEL Supply Company is a wholesale distributor for the finest quality Prosthetic and Orthotic parts and supplies. PEL Supply Company offers personal, friendly service, user-friendly catalogs and a large inventory of products ready for immediate shipment. Over 35,000 parts at fair prices from hundreds of manufacturers in stock and ready for immediate delivery. This means ONE STOP SHOPPING to reduce your administrative costs. You can get real value from PEL... PEL works for you.

PMT Corporation

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Fax: 952/470-0865
Toll-Free: 800/626-5463
E-mail: info@pmtcorp.com
Web: www.pmtcorp.com

Prosthetic Design, Inc. (PDI)

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Clayton, OH 45315
Phone: 937/836-1464
Fax: 937/832-5361
Toll-Free: 800/459-0177
E-mail: carly@pdiwins.com
Web: www.prostheticdesign.com

Description:

Prosthetic Design provides innovative products and services of superior quality and value that improve the lives of O & P practitioners and patients allowing our staff and communities in which we live and work to prosper. Prosthetic Design is devoted to improving lives through innovation. We're driven to make the best products on the planet by letting invention lead the way. That's why practitioners rely on our products. The performance advantages we achieve for clinical professionals transcend to the patient. They're in the patented features and groundbreaking design technologies of our components resulting in the ergonomic efficiency and all-day comfort of our sockets.

Prosthetic Design FAB24-7 also provides central fabrication services specializing in CAD/CAM, lower-limb, thermoplastic socket fabrication.

Prosthetics Research Specialists, Inc.

720 Southland Avenue
Bushnell, FL 33513
Phone: 352/793-4477
Fax: 352/793-1448
Toll-Free: 800/952-6744
E-mail: mailburton@aol.com
Web: www.prostheticsresearch.com

Restorative Care of America, Inc.

12221 33rd Street N.
St. Petersburg, FL 33716
Phone: 727/573-1595
Fax: 727/573-1886
Toll-Free: 800/627-1595
E-mail: info@rcai.com
Web: www.rcai.com

Description:

Restorative Care of America, Incorporated, for twenty years, is one of the world leaders in restorative orthotic devices, including the original L'Nard Multi Podus® foot orthoses. We offer forty additional orthoses for hands/wrists, arms, legs, torso and hips that are designed to enhance post-operative, fracture or contracture management treatment.

Royal Knit, Inc.

26011 East Colbern Road
Lee's Summit, MO 64086
Phone: 816/664-5648
Fax: 800/934-5648
Toll-Free: 800/934-5648
E-mail: faxme@royalknit.com
Web: www.royalknit.com

Sequoia/Comfort Rite

PO Box 160
New Holstein, WI 53061
Phone: 920/898-1919
Fax: 920/898-4605
Toll-Free: 800/898-5556
E-mail: rmarq4477@aol.com

Silipos, Inc.

366 Madison Avenue
New York, NY 10017
Phone: 212/687-3260
Fax: 212/818-9873
Toll-Free: 800/229-7105
E-mail: kavitab@silipos.com
Web: www.silipos.com

Description:

Silipos is the global leader in gel technologies. Silipos Gel is a major breakthrough in skin protection and our products provide maximum comfort and skin conditioning for the amputee. Our products include Explorer Liners and Sleeves, Silosheaths (A/K and B/K), ComfortZone Gel Liners, Partial Foot Socks, Wonderzorb Orthotics, Siloliner and Cushion Siloliner as well as Gel Suspension Sleeves.

Southern Prosthetic Supply, Inc.

PO Box 406
Alpharetta, GA 30009
Phone: 770/442-9870
Fax: 800/869-7776
Toll-Free: 800/767-7776
E-mail: cwithers@spsco.com
Web: www.spsco.com

Spinal Solutions, Inc.

1971 Old Covington Road, Suite 103
Conyers, GA 30208
Phone: 770/922-2434
Fax: 770/922-2076

Spinal Technology, Inc.

191 Mid Tech Drive
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Fax: 508/775-0588
Toll-Free: 800/253-7868
E-mail: scott_d@spinaltech.com
Web: www.spinaltech.com

Sportopedic Medical Shoppe

1924 Brown Street
Dayton, OH 45409
Phone: 937/461-2663
Fax: 937/461-3448

StatFab

corp222 (a Division of HOPE, Inc.)
1307 E. Landstreet Rd.
Orlando, FL 32824
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Fax: 407/851-8922
Toll-Free: 800/613-8852
E-mail: custserv@statfab.com
Web: www.statfab.com

TiMed

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Fax: (310) 212-1236
Toll-Free: (800) 805-3348
E-mail: atlas2@ix.netcom.com
Web: www.ti-med.com

Townsend Design/DeGroff Orthopedic

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Fax: 248/758-2495
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E-mail: debroffortho@aol.com
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