2019

International Anaplastology Association
33rd Annual Educational Conference

Problem Solving: The Path to Innovation

June 12-15

Scottsdale, Arizona, USA

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Welcome

Dear Colleagues and Friends,

As President of the International Anaplastology Association, it is with great pride that I welcome you to the 33nd Annual Educational Conference. Thanks to Megan Thomas' and team brilliant efforts, we will travel again in a crucial knowledge experience.

I began my career in osseointegration surgery in 1994 for oral needs, and then joined the anaplastology field in 2000, so I have twenty years of observation from a medical perspective. New colleagues take for granted the reliability of osseointegration sciences and craniofacial applications established by Professor Brånemark and his great associate Anders Tjellström. Implant retained epithetics, a major advance for disfigured people, are now an excellent solution thanks to two key positive concerns they had as well as the IAA's promotion of research and team collaboration. Let's be inspired for a moment by the strength of them.

In an ever changing technological world, research and team approach still lead us to build a better practice, stronger associations and renew our inspiration and duty to address the needs of the future, and innovate.

I thank all the board members, present and past, for their incredible commitments to the association, leading us this year to conduct a strategic planning event. We look forward together to a bright future that will greatly benefit generations of patients to come.

Warm regards,

Gaston Bernier, dmd, FADQ
IAA President 2018-2019

Program Chairs Welcome

Dear Colleagues,

It is our pleasure to welcome you to the 33rd annual educational conference of the International Anaplastology Association. This year's conference theme encourages attendees to share their experiences with problem-solving (successes and failures alike) as a means to inspire creativity and innovation in daily practice, strengthen cross-disciplinary collaboration, learn from past mistakes, and shepherd the field of anaplastology into its exciting future. If this is your first time attending an IAA meeting, we hope that you will feel a warm welcome from our group and benefit from the friendly networking and exchange of ideas that are hallmarks of our conferences. For our long-time members and returning attendees, this year's presentations, workshops, and techniques showcase are designed to reinvigorate your enthusiasm for the unique fusion of art and science that is emblematic of our field.

It has been a true team effort to put together this diverse and interesting program. We hope that it encourages practitioners to search for, and share, the best solutions to the challenges we face in our labs, with our patients, and as members of interdisciplinary teams in a rapidly changing healthcare environment. We would like to extend our deepest thanks to the IAA board, the conference planning committee, and especially to the IAA's Executive Director, Rachel Brooke, for devoting so much time and energy to conference planning. An additional thank you to Past President of the American Anaplastology Association and Arizonian, John McFall for providing such wonderful local support.

While you're here, we hope you'll find time to take advantage of the area's numerous galleries and fabulous museums, world-class golf courses, Frank Lloyd Wright's Taliesin West, and the beautiful Arizona scenery. Thank you for joining us!

Sincerely,
Megan Thomas, MS, CCA & Chelsea Lillo, BS, CF-m
IAA Conference Program Chairs

Sponsors

Southern Implants
Southern Implants is a leading provider of unique and innovative dental implant products with a focus on top-end professional users who want more choices. Southern's expertise in research, development and manufacturing of dental implants allows us to provide Innovative Treatment Solutions that will reduce treatment times and improve patient outcomes.

The company was established in 1987 and is headquartered in South Africa. Our global network of professional representatives are dedicated and committed to provide high level technical support. We aim to compliment the clinician's ability to deliver exemplified standards of care to their patients and referral base.

Factor II
Factor II, Incorporated was founded in August of 1978, Factor II has devoted all resources in search of the ideal material to replicate skin (soft tissue) and skin coloration through the application and advancement of prosthetic materials. Today, Factor II, Inc. is the most comprehensive supplier of medical, prosthetic, and three dimensional make-up supplies in the world.

Factor II works closely with the Manufacturers of Silicone Elastomers, together with Polymer Chemists, Material Engineers, and marketing sales teams, all in search of "State of the Art Materials" for use in daily practice.

Our Mission is to advance the Art, Science and Technology of Silicones and Prosthetics.

Panthera Dental
Headquartered in Quebec, Canada, Panthera Dental is a world leader in CAD/CAM implant solutions and dental sleep appliances. Designing, developing, manufacturing and marketing high-level dental restoration solutions, mandibular advancement devices, and related products using superior quality materials and an advanced CAD/CAM process.

Both a pioneer and a leader, Panthera Dental has successfully combined creativity, science and know-how to develop its proprietary innovative technology and is now able to offer next-generation products to the dental industry worldwide.

Technovent
Technovent Limited was acquired in 2007 by MBI (Wales) Limited at which time, its base of operations was relocated from Leeds to South Wales.

This move has allowed the Directors a more hands-on approach to Technovent's day to day activities, focusing on solidifying market share in UK and growth of the company overseas.

As such, Technovent is now the UK's leading supplier of its own-brand specialist maxillofacial prosthetic materials and its MagnaCap magnetic retention system.

Techniques SHOWCASE
Thursday, June 13, 2019
4:20 pm – 5:45 pm

Join us for an informal program of in-depth technique descriptions and demonstrations by your fellow anaplastologists. Techniques include 3D printing molds, ocular painting and fabrication, and more! This is an opportunity to get helpful hints for your own practice and connect one-on-one with your colleagues.

IAA Conference Schedule June 12-15, 2019

Wednesday, June 12, 2019

9:00 am – 12:00 pm	**Pre-Conference Workshop with Technovent - Silicone Technology – Greater Understanding Results in Improved Prostheses** **Mark Waters, Ph.D. and Alan Bocca, Consultant in Maxillofacial Prosthetics** The first part of this workshop will be a combination lecturing, demonstration and hands on exercises for the delegates, focusing on understanding the building blocks of silicone formulations. This initial part of the workshop will give the delegates an insight into chemically what is happening every time they use silicone materials and what potentially can go wrong. In the second part of the workshop, the knowledge delegates have gained in part 1 of the workshop will be applied to a practical clinical application. The course is aimed at those with some anaplastology experience who want to increase their knowledge of silicone technology, and learn more about how greater knowledge of silicones can lead to improved prostheses. The presenters have a wealth of experience in silicone science and anaplastology and the workshop gives the opportunity for the participants to 'pick their brains' in an informal atmosphere.
1:00 pm - 5:00 pm	**Pre-Conference Workshop with Factor II - Introduction to Fabricating with High Consistency Silicone Rubber** **John McFall, Executive Director, Factor II and Stefan Knauss, MAMS, CPO** HCR silicones are gaining popularity among professionals as they realize that high-quality medical appliances can be made with relative ease. HCR silicones are clay-like compounds that enable the clinician to form finished products without needing to build complex molds. This course is designed to introduce the prosthetist or anaplastologist to the essential principles involved in fabricating with these amazing compounds. The course will cover laboratory tools and requirements, manual fabricating techniques, project planning, pigmenting, milling, forming and curing. Each attendee will fabricate a prosthetic interface over a plaster cast with guidance from the presenters. Professionals from a variety of backgrounds can expect to recognize, from the fundamentals presented, endless applications of HCR silicone for their own practice.
6:00 pm – 8:00pm	***Welcome Reception and Poster Session***

welcome RECEPTION

Join us from 6:00 – 8:00 p.m. as we kick off the IAA's 33rd Annual Educational Conference in Arizona II & III!!

All conference attendees are encouraged to join us for this event.

Thursday, June 13, 2019

Scientific Session and Workshop: Day 1

7:15 am – 8:00 am	***Light Breakfast for All Attendees***
8:00 am – 8:05 am	President's Welcome
8:05 am – 8:15 am	Conference Chair Welcome
Session Theme: Modeling Techniques and Materials	
8:20 am – 9:05 am	**KEYNOTE** *Anatomical and Dermatologic Wax Modeling Techniques* Eleanor Crook, MA, Sculptor and Medical Modeler
9:10 am – 10:00 am	Silicone Success Panel Discussion Moderated by Julie Jordan Brown, MAMS, CCA
10:05 am – 10:20 am	The Digital Revolution in Maxillofacial Prosthetics: Is There a Price to be Paid? David J. Reisberg, DDS, FACP, FAAMP
10:25 am – 10:40 am	Integration of Computer Aided Modeling and Manufacturing into Maxillofacial Prosthetics Banu Karayazgan Saracoglu, DDS
10:40 am – 11:00 am	***Coffee Break in Exhibit Area***
Session Theme: Retentive Solutions for Craniofacial Prostheses	
11:00 am – 11:15 am	Prosthetic Management of a Mid-facial Malignant Fungating Wound Allison Vest, MS, CCA
11:20 am – 11:35 am	Adhesive Factors: Success with Adhesive-Retained Prostheses Paul Tanner, CCA
11:40 am – 11:55 am	Using HCR Silicone to Customize Eyeglass Frames for Nasal Prosthesis Retention Gina Cohen, MFA, CCA
12:00 pm – 12:15 pm	Best Laid Plans: When Things Don't Go According to Ours…. Akhila Regunathan, BFA, MS
12:15 pm	Announcements
12:20 pm – 1:35 pm	***Lunch***
1:35 pm	Announcements
Session Theme: Looking Forward: Finding Solutions for the Future of Anaplastology	
1:40 pm – 2:20 pm	**KEYNOTE** *3D-Printing in Medicine: From Models, Guides and Prosthetics to New Advanced Regenerative Biomaterials and Bioprinting* Adam Jakus, Ph.D., Dimension Inx
2:25 pm – 2:55 pm	Fundraising Strategies in Anaplastology and Maxillofacial Prosthodontics: A Global Perspective Rodrigo Salazar Gamarra, DDS
3:00 pm – 3:15 pm	Hiring Process for an Anaplastology Clinic: Quebec's Team Tests Annie Laverdiere
3:15 pm – 3:35 pm	***Coffee Break in Exhibit Area***
3:35 pm – 3:50 pm	Pursuing Education & Employment in Anaplastology, Erin Stevens, MS and Roberto Fanganiello, Ph.D.
3:55 pm – 4:10 pm	Anaplastology and Social Media, Alejandro Padilla, MS
4:10 pm – 4:20 pm	Sponsor Introductions & Announcements
4:20 pm – 5:45 pm	***Techniques Showcase***

Friday, June 14, 2019

Scientific Session and Workshop: Day 2

Session Theme: The Art of Working with Silicone	
7:30 am – 8:55 am	***IAA Business Meeting & Membership Breakfast – Members Only; Light Breakfast for All Attendees***
8:55 am – 9:00 am	Announcements
9:00 am – 9:45 am	**KEYNOTE** *Kazuhiro Tsuji's Hyperrealistic Silicone Portraits – Part 1* Kazuhiro Tsuji, Special Effects Artist and Hyperrealistic Sculptor
9:45 am – 10:00 am	***Coffee Break in Exhibit Area***
10:00 am – 11:00 am	**KEYNOTE** *Kazuhiro Tsuji's Hyperrealistic Silicone Portraits – Part 2* Kazuhiro Tsuji, Special Effects Artist and Hyperrealistic Sculptor
Session Theme: Problem Solving with Somatic Prostheses	
11:05 am – 11:20 am	High Consistency Silicone Rubber Basics Stefan Knauss, MAMS, CPO
11:25 am – 12:05 pm	**KEYNOTE** *Diabetic Foot Complications – Optimizing Outcomes, Minimizing Amputations* Jeff Jensen, DPM, FACFAS
12:10 pm – 12:25 pm	Collaborating on Partial Hands and Feet, How Working Together Benefits All Paul Rothchild and Michaela Calhoun, CCA
12:25 pm – 2:10 pm	***Lunch on Your Own***
2:10 pm – 2:20 pm	Announcements
2:20 pm – 2:50 pm	**IAA Humanitarian Award: History of Anaplastology at Stanford University** Barbara Spohn Lillo, AS, CCA-Ocularist, CF-m and Donald Laub, MD
2:55 pm – 3:55 pm	**Sponsor Learning Workshop with Southern Implants – FREE TO ATTEND!**
3:55 pm – 4:15 pm	***Coffee Break in the Exhibit Hall***
Session Theme: Patient Experience	
4:15 pm – 4:30 pm	Regeneration Medicine in Treating Oral Side Effects of Cancer Therapy Mark S. Chambers, DMD, MS
4:35 pm – 4:50 pm	Customer Service Orientation in Healthcare: Utilizing Counseling Skills for Improved Patient Outcomes Stevie Pena, Licensed Mental Health Counselor
4:55 pm – 5:10 pm	Benefits of a Virtual 3D Workflow of Custom Made External Breast Prosthesis: A Prospective Study of 40 Women Gaston Bernier, DMD, FADQ
5:15 pm – 5:30 pm	The Empirical Method in the 21st Century: How to Fit an Indwelling Ocular Barbara Spohn-Lillo, AS, CCA, CF-m
5:30 pm – 5:35 pm	Closing Remarks
7:00 pm – 9:00 pm	***IAA Banquet***

Saturday, June 15, 2019

8:00 am – 9:30 am	**Post-Conference Workshop with Fourth Seal Studios** **Digital Approaches to Iris Design and Ocular Fabrication-- Photoshop Painting, Custom Brushes, Iris Photography, Scanning and SLA Printing** Fourth Seal Studios is a California-based company that uses 3D modeling and digital design to fabricate custom eyes and make-your-own-eye kits for special effects and other uses. During this presentation, Fourth Seal will demonstrate their workflow for fabrication of oculars, utilizing programs such as CAD software, ZBrush and Photoshop. Additionally, they will demonstrate their approach to digital painting and photo iris editing and show how their techniques can be integrated into the medical field and anaplastology practice.
9:30 am – 12:30 pm	**Post-Conference Workshop with Rodrigo Salazar Gamarra, DDS** **Accessible 3D Photogrammetry for Facial Prosthesis Data Acquisition** In this workshop, participants will be exposed to the scientific theory behind photogrammetry-based 3D scanning technology as we explore affordable photogrammetry applications accessible to anaplastologists and how to implement them into one's workflow. Participants will get hands-on practice conducting 3d scans and data management using smartphone photogrammetry software and BlenderTM, a free and open source complete 3D creation suite.

Continuing Education Credits

Sessions at this conference will earn Continuing Education Units with the BCCA. The BCCA requires that certificate holders acquire their own verification documentation that must include the conference or workshop agenda and one of the following: contact hours, certificate of attendance or a letter from the event sponsor of the course confirming both the dates and hours of attendance. CEU hours for this conference have been calculated by the IAA. The number of CEU credit hours is based upon instructional time, excluding welcomes, introductions, breaks, meals and other non-education events. Following the conference, the IAA will e-mail you a Certificate of Attendance.

IAA BUSINESS MEETING & MEMBERSHIP BREAKFAST

Friday, June 14, 2019
7:30 am – 8:55 am

PRE-CONFERENCE PROGRAM *Wednesday, 9:00 am – 12:00 pm*

Pre-Conference Workshop with Technovent – Silicone Technology – Greater Understanding Results in Improved Prostheses'

Speakers
Mark Waters, Ph.D. and Alan Bocca, Consultant in Maxillofacial Prosthetics

The first part of this workshop will be a combination lecturing, demonstration and hands on exercises for the delegates, focusing on understanding the building blocks of silicone formulations. This initial part of the workshop will give the delegates an insight into chemically what is happening every time they use silicone materials and what potentially can go wrong. In the second part of the workshop, the knowledge delegates have gained in part 1 of the workshop will be applied to a practical clinical application. The course is aimed at those with some anaplastology experience who want to increase their knowledge of silicone technology, and learn more about how greater knowledge of silicones can lead to improved prostheses. The presenters have a wealth of experience in silicone science and anaplastology and the workshop gives the opportunity for the participants to 'pick their brains' in an informal atmosphere.

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Pre-Conference Workshop with Factor II – Introduction to Fabricating with High Consistency Silicone Rubber

Speakers
John McFall, Executive Director, Factor II and Stefan Knauss, MAMS, CPO

HCR silicones are gaining popularity among professionals as they realize that high-quality medical appliances can be made with relative ease. HCR silicones are clay-like compounds that enable the clinician to form finished products without needing to build complex molds. This course is designed to introduce the prosthetist or anaplastologist to the essential principles involved in fabricating with these amazing compounds. The course will cover laboratory tools and requirements, manual fabricating techniques, project planning, pigmenting, milling, forming and curing. Each attendee will fabricate a prosthetic interface over a plaster cast with guidance from the presenters. Professionals from a variety of backgrounds can expect to recognize, from the fundamentals presented, endless applications of HCR silicone for their own practice.

CONFERENCE PROGRAM: GENERAL SESSION *Thursday, 8:20 am – 9:05 am*

KEYNOTE PRESENTATION

Anatomical and Dermatologic Wax Modeling Techniques

Speaker
Eleanor Crook, MA, Sculptor and Medical Modeler

Eleanor Crook presents the materials and techniques she has developed in producing her lifelike sculptures which cross the boundaries between fine art, portraiture and medical modelmaking. These have been researched both in a contemporary anaplastology department in the UK and through her conservation work in historic museum collections known for their anatomical wax models - including La Specola museum Florence, the Gordon Museum London and the Vrolik museum Amsterdam. She has developed, rediscovered and invented techniques on a "need to know" basis in fulfilling commissions about First World War and other reconstructive plastic surgery and a variety of dermatological pathologies, which she has produced using hand modelling processes not body casting. In the search for material mimicry of real tissues and symptoms she has sought to rediscover the secrets of the master wax modelers of the 18th and 19th centuries, to reconstruct their wax mixtures and techniques of replication and to harness the visual impact of their works to communicate the social impact of facial injury and dermatological disease - and of course the ingenuity of surgery and pharmacology.

Speaker Bio

Eleanor Crook is a sculptor, medical artist and wax modeller who lives and works between the UK and a number of international medical museum collections. Originally trained in Classics and archaeology, she retrained in sculpture at Central St Martins and the Royal Academy Schools where she specialized from the outset in the possibilities of the figure and of anatomy, studying the body from an aesthetic and a medical viewpoint in parallel, working from both the living figure and in the dissecting room. She is artist in residence at King's College's Gordon Museum of Pathology and at the Vrolik Museum in Amsterdam. Her material specialism is the lifelike handling of waxes which has led to an interest in bronze which she enjoys as an immortal yet liquid medium. She has made a series of museum works to commemorate the advances of facial reconstructive surgery in wartimes since the 1850s to the present and another series replicating destructive dermatological symptoms in wax. She shares these skills as an art educator for a number of museums and for the Ruskin School of Art in Oxford. Current projects include museum conservation of Ziegler and other historic wax models, research into the technique of 18th century anatomical écorché figures and a large bronze commission for the new Medicine Galleries of London's Science Museum. She is a longterm member of the Medical Artists' Association of Great Britain.

CONFERENCE PROGRAM: GENERAL SESSION *Thursday, 9:10 am – 10:00 am*

Silicone Success Panel Discussion

Moderated by
Julie Jordan Brown, MAMS, CCA

Experts in the field will share their experience with materials used in their daily practice to fabricate silicone prostheses. Anaplastologists share common goals; we create beautiful life-like prostheses that are durable, comfortable and securely attached. However, each practitioner has preferences when it comes to selection of silicone. The discussion will provide an understanding of which silicones clinicians are using and how/why they are combining materials for optimal properties. The goal is to improve patient outcomes by identifying which materials work best and to share this information in an open discussion.

Speaker Bios

Julie Jordan Brown, MAMS, CCA
Julie is owner and clinical director of Medical Art Resources, established in Milwaukee, Wisconsin in 1988 in response to a statewide need for high quality facial prosthetic treatment. Her education is highlighted by a master's degree from the University of Illinois at Chicago in biomedical visualization, with clinical experience at University of Illinois Hospital and Northwestern University Hospital in Chicago. As a certified clinical anaplastologist, Julie regularly partners with surgeons, therapists, ocularists, dental specialists and limb prosthetists to provide the best possible prosthetic restoration with careful attention to every detail for every patient. Over the last thirty years, Julie has expanded the scope of practice to include custom athletic face guards, finger, partial hand and hand prostheses, toe and partial foot prostheses, and nipple and breast prostheses.

Julie is committed to continuing education. She is active in professional associations and is a member and past-president of the IAA and past-president of the Board for Certification in Clinical Anaplastology. Julie believes that the benefits of professional collaboration in this small field are key to improvements in patient care.

Stefan Knauss, MAMS, CPO
Stefan Knauss is co-owner of Aesthetic Prosthetics, Inc., founded in Pasadena, CA, in 1999. He earned a bachelor's degree from Occidental College and studied at the Art Center College of Design. He has a Masters of Associated Medical Sciences degree from the Craniofacial Center in the Department of Maxillofacial Prosthetics at the University of Illinois, Chicago. He also studied prosthetics and orthotics at Northwestern University in Chicago, IL. Stefan is certified in prosthetics and orthotics by the American Board of Certification for Prosthetics and Orthotics.

Jay McClennen, AOCA, CCA, CFm
Jay is a highly skilled artist, problem-solver, and innovator. Starting in 1989, McClennen worked as a freelance artist with his own company, Spire Art & Design in Ontario, Canada. Much of his research during that time had been in silicone gel-filled prosthetic appliances with emphasis on natural tissue movement, achieving hyper-realistic results.

Four years of classical education in figurative sculpture at the Ontario College of Art & Design and specialized training in forensic art have led Jay to recreate the human form in the varied, but related fields of film, forensics and medical prosthetics. Jay has excelled in all of these areas.

In the Hollywood film industry, Jay worked for 17 years with Gordon Smith, President of FXSmith. Smith is recognized in the film industry as an innovator in silicone prosthetic technology. The team received Emmy and Hollywood Make-up Artist

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Guild nominations and won Gemini and Saturn Awards. Jay's filmography can be seen on the Internet Movie Data Base (IMDB).

With Jay's skill in forensic facial reconstruction, he has provided an invaluable service to the Ontario Coroner's Office, local law enforcement, and the rest of the Ontario community by assisting them in putting a face on unidentified human remains. In addition, he has become a pioneer in the field of anaplastology.

Over the last several years, Jay has concentrated on medical prosthetics, exploring new methods and materials for facial and limb prostheses while making advances in custom breast designs. Jay headed and completed a two year clinical trial at Toronto Sunnybrook Regional Cancer Center on an innovative custom silicone breast prosthesis of his own design. He co-authored a paper published in the Current Oncology Journal (Vol. 19, No. 2, April 2012) on his unique breast prosthesis. Jay has lectured internationally on a variety of topics demonstrating his advancements in the field. He is an expert in osseointegrated facial prosthetics and has co-authored a paper with physicians from Duke University Medical Center on this topic which has been published in the October 2014 issue of the Journal of Otolaryngology Head and Neck Surgery.

Jay had been an active member of the Board of Directors for the International Anaplastology Association for eight years including serving as President of the association in 2013-2014. He is currently a member of The Board for Certification in Clinical Anaplastology.

David Robinson, BA, CCA, CFo
David graduated in 2002 from the University of South Florida with a Bachelor's degree in Art Studio. Married to a congenital amputee, David understands first-hand how prosthetic devices can impact the lives of individuals.

Soon after graduating college, David found a way to combine his love for art with his interest in prosthetics. For the next 14 years, David fine tuned his skills in Tampa, Florida, establishing the anaplastology department at a leading orthotics and prosthetics facility.

In 2014, David and his family moved to Durham, North Carolina to join The Anaplastology Clinic's prestigious team of clinicians.

David specializes in prostheses for the extremities, including fingers, hands, arms, toes and feet. Recognizing the need for increased durability and detail, he has spent years developing a fabrication process for custom silicone myoelectric arm coverings. David enjoys and encourages the spirit of collaboration with allied health professionals, such as physical/occupational therapists, prosthetists and orthotists.

David is a Past Treasurer of the International Anaplastology Association.

Paula J. Sauerborn, MA, CCA
Paula Sauerborn, MA, CCA, has specialized in finely detailed custom facial and hand prostheses for over 30 years. She is highly skilled in osseointegrated prosthetic techniques and is commited to creating functional, durable and aesthetically beautiful prostheses for her patients individual needs. Her Baltimore-based practice is one of the oldest, continually operating facial and hand prosthetic firms in the country.

Paula provides prosthetic restorations for a national and international patient base. Among the diverse patient population that she serves, she brings a combination of artistic and technical acuity to the design and faithful replication of highly realistic craniofacial and hand prostheses.

Osseointegrated implant-retained prostheses frequently provide a viable alternative to surgical reconstruction. Using a team approach for patient care, Paula works with physicians in private practice as well as surgeons within institutions, such as Johns Hopkins, University of Maryland and Greater Baltimore Medical Center.

Paula believes that learning is a lifelong process and regularly participates as well as instructs continuing medical education courses. She stays current with advanced technologies and has a special interest in fabrication of 3 dimensional rapid prototyping models and surgical templates from imaging data and materials research.

Paula has been actively involved as a member of International Anaplastology Association (IAA) since 1987, and has served as President as well as on its Board of Directors. She has also been a member of numerous other professional associations relevant to her field including the Association of Medical Illustrators, Academy of Dental Materials, Society of Rapid Manufacturing Engineers, and Association of Biomedical Sculptors. She presents lectures and workshops both nationally and internationally.

Allison K. Vest, MS, CCA
Allison Vest received her Bachelor of Arts degree from New College in Sarasota, Florida in 2002. Her Master of Science degree was earned in 2004 from the Universty of Illinois at Chicago Graduate School of Biomedical Visualization.

Her post graduate facial prosthetics training included an internship in the Maxillofacial Prosthetics Clinic at the University of Florida Medical Center and an externship at the Morriston Hospital in Swansea, Wales.

Ms. Vest served as Secretary of the AAA/IAA in 2005, 2006. She also served on the conference planning and newsletter committees. In addition, she is a Past President of the Board for Certification in Clinical Anaplastology.

She is currently the owner and manager of a private practice specializing exclusively in facial and somato prostheses in Dallas, Texas.



Thursday Night Art Walk Social Event - Optional

For those who are interested, please join us for the Downtown Scottdale's Art Walk! Over 25 galleries in the Scottsdale Art District open their doors for all to enjoy featured artists, an inspiring cultural environment and refreshments.

When: Thursday, June 13th, 7-9 pm

Transportation: Erin Stevens will be available in the Hotel Lobby from 6:00-6:30 pm to help answer questions and guide attendees.
Attendees are responsible for acquiring transportation to and from Downtown Scottsdale. (Ride share rates are $9-15 USD depending on vehicle size). Instruct your driver to take you to 7010 E Main Street, Scottsdale (E Main Street & N Goldwater Blvd).

Meet at Sonleiter Gallery (7010 E Main Street) at 7:00 pm.
We will begin strolling the artwork at 7:15. Feel free to stroll at your own pace to any of the galleries of your choice.

Link to Gallery Map & Directory: https://scottsdalegalleries.com/about/map/

We hope you'll join us for a fun, casual, FREE night of art and culture!

CONFERENCE PROGRAM: GENERAL SESSION *Thursday, 10:05 am – 10:20 am*

The Digital Revolution in Maxillofacial Prosthetics: Is There a Price to be Paid?

Speaker:
David J. Reisberg, DDS, FACP, FAAMP

Digital technology is everywhere. It permeates all phases of our lives; both personal and professional. It is playing an ever-increasing role in maxillofacial prosthetics, making all of us more efficient and effective in providing a higher level of care for our patients. Fortunately, as we integrate this technology into our practices and make this move to a digital world it has been a perfectly smooth transition…NOT.

This presentation will illustrate the many positive aspects of digital technology. It will also address the challenges we face as we embrace this revolution in the world of maxillofacial prosthetics. It will conclude by offering some realistic solutions to these challenges so we all may move ahead and prosper in this ever-evolving landscape.

At the end of this presentation, the attendee should be able to identify the many applications of digital technology in maxillofacial prosthetics, be aware of the difficulties we face engaging the digital world, and ways to address these problems.

Speaker Bio

Dr. David Reisberg received his dental degree from Case Western Reserve University in 1977. He completed a General Practice Dental Residency at Michael Reese Hospital (1978) and has a certificate in Prosthodontics from Tufts University (1980) and one in Maxillofacial Prosthetics from The University of Chicago (1981). He has been Director of the Maxillofacial Prosthetics Clinic at The University of Illinois Hospital and Health Sciences System in Chicago since 1981. He served as Medical Director of The Craniofacial Center there from 1998 to 2010. Dr. Reisberg is the current president of the American Academy of Maxillofacial Prosthetics and past president of the International Society for Maxillofacial Rehabilitation. He is also president of Ameriface, a national organization that supports individuals with facial differences and a member of the Executive Council of the American Prosthodontic Society. Dr. Reisberg is certified by the American Board of Prosthodontics. Most importantly, he is grandfather to Lily, Thomas, and Jack Jerome.

CONFERENCE PROGRAM: GENERAL SESSION *Thursday, 10:25 am – 10:40 am*

Integration of Computer Aided Modeling and Manufacturing into Maxillofacial Prosthetics

Speaker:
Banu Karayazgan Saracoglu, DDS

Fabrication of a maxillofacial prostheses is a labor intensive and time-consuming procedure and requires experience starting from planning to the delivery phase. In all of the steps of this treatment, subjective approach of the prosthodontist affects the end result. Therefore, all the aspects of the procedure should be taken into consideration with great attention. Emerging digital technologies have been an effective tool to empower the maxillofacial prosthodontist to design and deliver more efficient and exceptional prosthesis with less inaccuracy. In a digital workflow, the production phase of these prostheses can be performed by rapid prototyping that is faster and more precise than the traditional workflow. Integration of the digital technology into the world of prosthetics and obtaining exact measurements and modeling in a digital format make the procedure easier and predictable, both for the patient and the prosthodontist.

Speaker Bio

Banu Karayazgan graduated from Istanbul University, Faculty of Dentistry in 1997 and completed her specialty degree in maxillofacial prosthodontics at the same university. In 2004, she was accepted for the ITI scholarship program at the center for Implant Dentistry, University of Florida, USA. She received her associate professor degree in 2011 at the department of prosthodontics, Baskent University and currently, she is professor and chair at the Department of Prosthodontics, Okan University. She also owns her private practice in Istanbul. She is currently the fellow and education delegate of ITI (International Team for Implantology), Turkey & Azerbaijan Section. Her fields of interest are mainly in intraoral and extraoral implantology and maxillofacial prosthetics.

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CONFERENCE PROGRAM: GENERAL SESSION *Thursday, 11:00 am – 11:15 am*

Prosthetic Management of a Mid-facial Malignant Fungating Wound

Speaker:
Allison Vest, MS, CCA

Purpose: Malignant fungating wounds can be overwhelming for the anaplastologist to effectively provide treatment for. Managing an everchanging wound site, malodor, and the resulting practicioner's psychological distress and physical fatigue must be addressed when developing a treatment plan.

Materials and Methods: Palliative prosthetic care was the only care sought by this patient. A comfortable mid-facial prosthesis was designed to partially cover a fungating wound using glasses and flesh colored paper tape for retention. Ease of use was paramount for success in this terminally ill patient. Short working days for the anaplastologist, diffused essential oils and paid leave for other clinic employees was essential to the clinic's "management plan" of this case.

Results: The anaplastologist's treatment plan may need to vary for patients with fungating wounds or those with extreme fetid odors. In our case, the entire clinic's normal operating procedure was altered to serve this patient. An acceptable aesthetic result was achieved using atypical materials and methodology.

Conclusion: A patient-focused treatment plan which included palliative prosthetic care was successfully delivered to a patient enduring a socially isolating, complex wound.

Speaker Bio

Allison Vest received her Bachelor of Arts degree from New College in Sarasota, Florida in 2002. Her Master of Science degree was earned in 2004 from the Universty of Illinois at Chicago Graduate School of Biomedical Visualization.

Her post graduate facial prosthetics training included an internship in the Maxillofacial Prosthetics Clinic at the University of Florida Medical Center and an externship at the Morriston Hospital in Swansea, Wales.

Ms. Vest served as Secretary of the AAA/IAA in 2005, 2006. She also served on the conference planning and newsletter committees. In addition, she is a Past President of the Board for Certification in Clinical Anaplastology.

She is currently the owner and manager of a private practice specializing exclusively in facial and somato prostheses in Dallas, Texas.

CONFERENCE PROGRAM: GENERAL SESSION *Thursday, 11:20 am – 11:35 am*

Adhesive Factors: Success with Adhesive-Retained Prosthesess

Speaker:
Paul Tanner, CCA

A review of craniofacial osseointegrative implant literature will lead you to believe that using adhesive to attach a facial prosthesis is non-functional and patients are not satisfied. You are led to believe that an adhesive-held prosthesis will fall off in the most inconvenient time last for only a few minutes or hours. What if they were secure enough to last for several days? How would that impact the quality of life for your patients? When is the last time adhesive-held prostheses were advocated or even investigated? Through our series of experiments, you will learn the factors of adhesive-retained prostheses and how to have happy patients! M&M: Elastomers and adhesives were tested for their bonding abilities. Bond strengths were quantified using a force gauge and a modified peel test. Conclusion: Adhesive-held prostheses are a great solution for many patients and should be advocated when used properly.

Speaker Bio

Paul Tanner lives and works in Salt Lake City, Utah. For 16 years he has been an anaplastologist at University of Utah's Huntsman Cancer Hospital. He specializes in facial prosthetics, 3D printing, pigmentation, osseointegrated implants, and loves experimenting with materials. When he is not creating something, Paul likes to play soccer or pickleball, ski, climb, and bike.

CONFERENCE PROGRAM: GENERAL SESSION *Thursday, 11:40 am – 11:55 am*

Using HCR Silicone to Customize Eyeglass Frames for Nasal Prosthesis Retention

Speaker:
Gina Cohen, MFA, CCA

Adhesive application of a nasal prosthesis can be a struggle for clients with limited mobility/missing hands. In this case presentation, I will detail how we created a custom High Consistency Rubber silicone customized piece for a patient's glasses frames as a low profile, lightweight and efficient way to attach a nasal prosthesis to glasses for retention.

Speaker Bio

Gina began working professionally as a Medical Prosthetic Artist in 2008 after completing a two year training program in anaplastology at Columbia Presbyterian Hospital and the Bronx VA in New York. Prior to that, she earned a Bachelors of Arts degree at Florida State University and a Masters of Fine Arts degree in Sculpture at the New York Academy of Art. She is a member of the International Anaplastology Association and a board Certified Clinical Anaplastologist.

CONFERENCE PROGRAM: GENERAL SESSION *Thursday, 12:00 pm – 12:15 pm*

Best Laid Plans: When Things Don't Go According to Ours….

Speaker:
Akhila Regunathan, BFA, MS

In the course of creating facial prostheses for patients, the hope is that we are able to control all the variables of treatment as best as possible. A surgical guide is created with the most ideal positioning for implants. A 3D prototype is designed and printed prior to fabricating a mold required for creating the silicone prosthesis. The best possible path of insertion is determined for ideal ease of use for the patient. Tissue heights are considered when designing components so that hygiene will not be a cause for concern. But, in some cases, even the best planning and consideration cannot prevent unexpected circumstances from occurring. The unforeseen events of some of these types of cases will be discussed.

Speaker Bio

Akhila completed her Master of Science through the Biomedical Visualization Program at the University of Illinois at Chicago in 2003 specializing in anaplastology. In 1997, she completed her Bachelor of Fine Arts in Art Education at the University of Illinois at Urbana-Champaign with a major in the teaching of english. Akhila went on to pursue coursework in the sciences at Benedictine University and became a research assistant at Argonne National Laboratory in Illinois before combining her interests in art and science and enrolling in the master's program. As an anaplastologist, Akhila creates custom facial prostheses for patients who are missing parts of their facial anatomy due to disease, trauma, or congenital conditions.

Akhila began working at iRSM in 2004. Her focuses include patient-oriented research, implementing digital technology into the treatment of facial prosthetic patients, patient advocacy and recruitment, and patient quality of life.

CONFERENCE PROGRAM: GENERAL SESSION *Thursday, 1:40 pm – 2:20 pm*

KEYNOTE PRESENTATION

3D-Printing in Medicine: From Models, Guides and Prosthetics to New Advanced Regenerative Biomaterials and Bioprinting

Speaker:
Adam Jakus, Ph.D., Dimension Inx

It's becoming increasingly difficult to imagine the future of medicine and healthcare without 3D-printing (or additive manufacturing) playing a role. But 3D-Printing in medicine is not new - it is 30 years old! In that 30 years, a wide range of 3D-Printing technologies have been developed and commercialized, many of which are widely and are beginning to become major components of standard of care for some applications. This talk will present a brief history of 3D-Printing in medicine, from its initial introduction, to the present day, as well as the generic 3D-Printing process and the importance of the interplay between the user, hardware, software, and materials. However, the primarily focus will be on the present use and status of the three general categories of medical 3D-Printing: Traditional for models, guides, prosthetics, and permanent implants; Bioprinting for living cells and tissue fragments; and Advanced Biomaterials that can repair and regenerate tissues without needing to add cells. The presentation will finish with an outlook on the near and distant future of 3D-printing in medicine across applications and the challenges that still need to be overcome that will enable these transformative technologies to revolutionize patient care.

Speaker Bio

Adam Jakus, PhD is the co-founder and Chief Technology of Dimension Inx LLC, a start-up developing transformative advanced manufacturing materials and processes for medical and non-medical spaces. Adam received his BS and MS degrees in Materials Science and Engineering (MSE) from Georgia Tech and PhD in MSE from Northwestern University (NU). While at NU, Adam developed an entirely new, materials-centric approach to 3D-printing, now referred to as 3D-Painting, and hundreds of new 3D-printable materials. These materials include but are not limited to Hyperelastic Bone®, 3D-Graphene, Tissue Papers, and Fluffy-X™ as well as 3D-Metals and Alloys, advanced ceramics, and more. In 2016, Adam co-founded Dimension Inx to commercialize and translate the 3D-Painting technology - developing and manufacturing new advanced materials for 3D-Printing and developing and co-developing clinical products. Adam is the author and co-author of numerous high impact medical and non-medical publications, book chapters, industrial publications, and is actively involved with professional societies, helping to establish guidelines, guidance, and certifications related to the emerging fields of tissue and organ manufacturing.

CONFERENCE PROGRAM: GENERAL SESSION *Thursday, 2:25 pm – 2:55 pm*

Fundraising Strategies in Anaplastology and Maxillofacial Prosthodontics: A Global Perspective

Speaker:
Rodrigo Salazar Gamarra, DDS

It is very common to find public and private health systems worldwide prioritizing surgical steps (ablative and/or reconstructive stages), leaving the less or no resources for the rehabilitation process, which considers physical therapies, prosthesis fabrication and psychological companion. The first ones are indeed necessary to keep a person alive, but the absence of the rehabilitation process will delay or limit the reinsertion of the patient on a previous social context with quality of life, especially if we are working towards population with despair image of their body due to cancer, accidents or congenital illness.

The huge challenge for systems working on the rehabilitation is to find the resources that insurance or health systems would not pay. Very few countries worldwide may have proper public health system management of patients under these conditions. Most countries have limited regulation that will allow a proper treatment of patients for anaplastology or maxillofacial prosthetics. In countries with this last condition, professionals are used to working alone or in small teams, doing great efforts to fundraise resources to allow access to patients at public healthcare.

Fundraising applies in many and varied fields, countries and circumstances, but they share several values and fundamental practices: they work for social change, they help people and preserve valuable assets. In fact, they work to make the world a better place. For these reasons, fundraisers strive to identify and apply better practices. Universal principles for fundraisers are honesty, respect, integrity, compassion, and transparency. Responsibilities and relationships between stakeholders and donators are needed. Communication and proper marketing, too.

During the lecture we are going to discuss these topics and also share some strategies that have been working for us as a non-profit organization in Latin America.

Speaker Bio

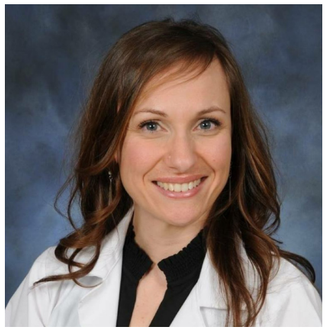
Dr. Salazar is a Peruvian dentist, Specialist in Oral Rehabilitation, Master in Science., and student of Ph.D. in maxillofacial prosthodontics at the Paulista University with Luciano Dib. He is a Maxillofacial Prosthodontics in the NGO "Mais Identidade" in São Paulo, Brazil, and advisor on the same topic of OREMA Foundation in Santiago de Chile.

During his master, he developed the +ID Technique, which uses affordable technologies for maxillofacial prosthodontics and Anaplastology, including smartphones, free software, and low-cost 3D printers. This methodology gained global awareness from academics and also media, which translated his work in dozens of languages of 37 countries. Today there are 7 countries which use this methodology.

He serves as Treasurer of the International Anaplastology Association (IAA), Former Secretary of IAA and is Secretary of the Latin American Society of Maxillofacial Prosthodontics and Former Board Member of the Peruvian Society of Prosthodontics. Also, member of the ISMR and the International College of Prosthodontics.

Dr. Salazar is a Professor at the Peruvian University of Applied Sciences. He received different awards of "Merit of Honor" and other special recognition for volunteer social work in Peruvian undeveloped communities, achieving 90 social projects and activities in 25 districts of Perú.

CONFERENCE PROGRAM: GENERAL SESSION *Thursday, 3:00 pm – 3:15 pm*



Hiring Process for an Anaplastology Clinic: Quebec's Team Tests

Speakers:
Annie Laverdiere & Vicky Dessureault

In this presentation, we will share information about the hiring process developed in our clinic in order to attract and choose the best new anaplastology student. Along with a normalized standard interview, three tests were created to scan the applicants competencies: the coloration test, the mirror sculpting test and the cube test. We will show how the data of those tests ranged in relation with the applicants talents and led us to a successful hiring.

Speaker Bios

Annie Laverdiere has worked as an anaplastologist in Quebec City with Louise Desmeules and Dr. Gaston Bernier since 2014. She worked for nine years as a radiation therapist at l'Htel-Dieu de Quebec Oncology Center. Annie's special training includes training for custom breast prostheses with Jay McLennen's anaplastology team in North Carolina, Z-Brush for anaplastologist training with Jiri Rosicky's team in Augusta and Go!Scan training (Creaform).

Vicky Dessureault is a newly hired anaplastology student. She has worked as a research professional in a orthotics, prosthetics and medical equipment in a research and development center. In addition, she has owned a wood working business since 2005.

CONFERENCE PROGRAM: GENERAL SESSION *Thursday, 3:35 pm – 3:50 pm*

Pursuing Education & Employment in Anaplastology

Speakers:
Erin Stevens, MS and Roberto Fanganiello, Ph.D.

Anaplastology is a unique field which does not have a customary track for pursuing education or employment, nor do individual job roles look the same among practices, institutions and countries. Through interviews and surveys conducted with aspiring, practicing, and retired providers of anaplastology services, we aimed to gather information about how individuals from varying backgrounds have pursued careers in (or involving) anaplastology and the nature of these different careers. Based upon observations and feedback from participants, this presentation discusses various topics as they relate to opportunities for education in anaplastology: limitations of existing programs; barriers to accessing education and the impact of such barriers; and factors influencing career establishment and sustainability. A greater understanding of the challenges faced in our foundational training, accompanied by a commitment to expand or evolve the skills necessary to effectively treat patients in our respective healthcare systems, are essential to the development and viability of educational and professional opportunities in anaplastology.

Speaker Bios

Erin Stevens, MS is an anaplastologist and mastectomy fitter at Prosthetics at Graphica Medica, in Minnesota. Erin earned a Master of Science in Biomedical Visualization from the University of Illinois at Chicago, where she received anaplastology training at the UI Health Craniofacial Center. Recently, Erin has been working to implement breast prosthesis services in her clinic, applying digital scanning and design to custom breast fabrication. She is the current Vice-President of the Walter Spohn Trust (WST), a nonprofit organization that administers grants and supports education and research in anaplastology. Erin also serves as an officer of the IAA Board of Directors.

Roberto Fanganiello is a geneticist and stem cell biologist. He earned his PhD in Human Genetics from the Department of Genetics at the University of Sao Paulo and from the Department of Orthopaedics and Rehabilitation at the Yale University School of Medicine. He earned a post-doctorate degree in Tissue Bioengineering and Regenerative Medicine from the Institute of Biosciences at the University of Sao Paulo. Roberto is also a strategic and scientific consultant for start up and spin off enterprises in the area of biotechnology. Roberto serves as an officer on the IAA Board of Directors, as a scientific advisor at the Tissue Engineering and Regenerative Medicine Society (the "TERMIS - Americas" chapter) and as an industrial partner at the International Society of Cell and Gene Therapy (ISCT).

CONFERENCE PROGRAM: GENERAL SESSION *Thursday, 3:55 pm – 4:10 pm*

Anaplastology and Social Media

Speaker:
Alejandro Padilla, MS

Clinical Anaplastology is a niche profession. Consequently, the field has historically faced challenges in generating awareness about anaplastology services among the general public and other healthcare professionals. Social media platforms allow informative content to be shared and accessed by millions of people around the world, negating geographic and economic barriers. Furthermore, the ability to capture attention with interesting visual content can create opportunities for learning about concepts that are more successfully understood through visual aids. In this case, a single Instagram account was created for the purpose of sharing images, supplemented by brief commentary, that demonstrate the various processes involved in fabricating facial and somatic prostheses. This presentation examines the responses yielded by posts to the account over a given period of time and, more specifically, the purpose and frequency of outreach from three primary categories: 1) potential patients who had no prior knowledge about anaplastology services or places for treatment, 2) anaplastologists, prosthetists, and dental professionals interested in improving their skills, and 3) individuals seeking education and/or training programs in anaplastology. Considerations for how to apply social media response data to anaplastology-related promotional efforts will be discussed. The use of social media by individual anaplastologists and the profession as a whole allows for the dissemination of more information to the public and related professionals, potentially improving both access to treatment and quality of prostheses worldwide.

Speaker Bio

Alejandro (Ali) Padilla received a Bachelor of Fine Arts from the University of New Mexico in 2010, where he studied illustration and sculpture. In 2015 he received a Master of Science in Biomedical Visualization from the University of Illinois at Chicago, studying medical illustration and anaplastology. He works as a Clinical Anaplastologist in Belgium at the Center for Craniofacial Epithetics.

CONFERENCE PROGRAM: GENERAL SESSION *Friday, 9:00 am – 9:45 am & 10:00 am – 11:00 am*

KEYNOTE PRESENTATION

Kazuhiro Tsuji's Hyperrealistic Silicone Portraits

Speaker:
Kazuhiro Tsuji, Special Effects Artist and Hyperrealistic Sculptor

Historically, there is great overlap and exchange between the fields of special effects and anaplastology. Anaplastologists and special makeup effects artists employ similar materials and techniques as they work to create highly realistic renderings of the human face that must hold up to close scrutiny. In addition to discussing his career progression and work, Kazu will also share processes and techniques related to sculpting, mold-making, and casting his larger-than-life hyperrealistic portraits.

Speaker Bio

Kazuhiro Tsuji, Hyperrealist sculptor and Hollywood Special Effects Makeup Artist Kazuhiro Tsuji is an Academy Award-winning contemporary hyperrealist sculptor and makeup designer living and working in Los Angeles after getting his start in Japan. After a 25 year career in Hollywood, Kazu decisively shifted focus in 2012, dedicating himself full time to fine art sculpture. Kazu constructs three-dimensional silicone portraits in a scale two times life size, describing his approach to life sculpting as "[Going] beyond capturing a likeness. I create these heads from the inside out, bringing to life the appearance of inner thought and emotion as I layer the silicone… when a neutral expression is adjusted just right, it trigger[s] an illusion that the face is on the verge of sliding into different moods."

CONFERENCE PROGRAM: GENERAL SESSION *Friday, 11:05 am – 11:20 am*

High Consistency Silicone Rubber Basics

Speaker: **Stefan Knauss, MAMS, CPO**

High consistency silicone rubber (HCR) is an extraordinary two-part silicone compound which is clay-like in its uncured state, allowing it to be formed into a finished product without the need to build complex molds. This material has extremely strong and versatile properties lending itself to durable finished products which perform, in many instances, more favorably than other products within the family of elastomeric silicones.

Speaker Bio

Stefan Knauss is co-owner of Aesthetic Prosthetics, Inc., founded in Pasadena, CA, in 1999. He earned a bachelor's degree from Occidental College and studied at the Art Center College of Design. He has a Masters of Associated Medical Sciences degree from the Craniofacial Center in the Department of Maxillofacial Prosthetics at the University of Illinois, Chicago. He also studied prosthetics and orthotics at Northwestern University in Chicago, IL. Stefan is certified in prosthetics and orthotics by the American Board of Certification for Prosthetics and Orthotics.

CONFERENCE PROGRAM: GENERAL SESSION *Friday, 11:25 am – 12:05 pm*

KEYNOTE PRESENTATION

Diabetic Foot Complications – Optimizing Outcomes, Minimizing Amputations

Speaker:
Jeff Jensen, DPM, FACFAS

Dr. Jensen's presentation will overview and highlight the challenges associated with diabetes that can potentially lead to amputation. Wound care principles and levels of amputation when required, as well as prosthetic options at multiple levels, will be discussed.

Speaker Bio

Dr. Jeffrey Jensen is currently Professor and Associate Dean of the Arizona School of Podiatric Medicine at Midwestern University, Glendale, Arizona.

He previously served as the Dean at the Barry University School of Podiatric Medicine from 2010-2014 and Senior Director of Research at Barry University from 2014-2017. As Dean, he founded the Paul & Margaret Brand Research Center in 2011. From 1994-2010, Dr. Jensen was the clinic director of the Diabetic Foot & Wound Center in Denver, CO and served as the Externship and Research Director at the North Colorado Podiatric Surgical Residency from 2001-2010. He was an Assistant Clinical Professor at the University of Colorado Health Science Center from 1995-2010.

As an active researcher throughout his career, Dr. Jensen has been the principal investigator of over 30 multicenter clinical trials for wound care related drugs and medical devices. He has also generated over $5.0M in research grants from the National Institutes of Health, the Department of Defense and State organizations. This research has resulted in 10 patents for products addressing diabetic foot wounds, fractures and antimicrobials. His most recent research involves a Defense Advanced Research Projects Agency (DARPA) grant assessing gaseous Nitric Oxide under pressure as an antimicrobial for multidrug-resistant organisms.

In 2000, Dr. Jensen founded a medical device company, MedEfficiency, that created the "TCC-EZ" – a total contact casting system used to offload and assist in healing diabetic foot ulcers. MedEfficiency was acquired by Derma Sciences (now Integra) in 2012. TCC-EZ is currently the leading offloading device for healing diabetic foot wounds in the USA.

Dr. Jensen graduated from the California College of Podiatric Medicine in 1991. He completed his residency at the Monsignor Clement Kern Hospital in Warren, MI in 1993.

CONFERENCE PROGRAM: GENERAL SESSION *Friday, 12:10 pm – 12:25 pm*

Collaborating on Partial Hands and Feet, How Working Together Benefits All

Speaker:
Paul Rothchild and Michaela Calhoun, CCA

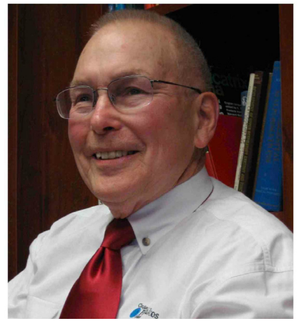
Michaela Calhoun of Graphica Medica and Paul Rothchild of Emerge Prosthetic Arts will discuss their collaborative approach to successful patient care for partial hands and feet. A step-by-step protocol for their cooperative technique will be outlined, including fitting, color matching, design, and fabrication. Additionally, they will emphasize division of labor, calibration methods, and communication. This presentation is meant to highlight the benefits of working collaboratively to provide the best possible outcomes for patients.

Speaker Bio

Paul Rothchild has been a professional prosthetic designer and fabricator since 2002, specializing in upper and lower extremities (partial hands and feet). Paul utilizes the latest technology in materials and processes coupled with 3D scanning/modeling/printing. He is looking forward to meeting colleagues and sharing his experience and expertise.

Michaela Calhoun, MS, CCA is a certified clinical anaplastologist living and working in the Twin Cities area of Minnesota. After earning a Bachelor of Fine Arts and a Master of Science degree in Biomedical Visualization at the University of Illinois at Chicago, she moved back to her native upper Midwest and joined the team at Prosthetics at Graphica Medica, LLC in January 2011. Michaela is also the current Chair of the Walter Spohn Trust (WST), a group that administers grants and supports educational research in the field of prosthetic rehabilitation. Through her work as a clinical anaplastologist and in her capacity as a member of the WST, she hopes to continue her support of high quality clinical care and scientific research in the field of anaplastology.

CONFERENCE PROGRAM: GENERAL SESSION *Friday, 2:20 pm – 2:50 pm*



IAA Humanitarian Award: History of Anaplastology at Stanford University

Speaker:
Barbara Spohn Lillo, AS, CCA-Ocularist, CF-m and Donald Laub, MD

Donald Laub, MD, in his early 30's, was the first plastic surgeon at Standford at the beginning of that field in the 1960's. He is also an international humanitarian, author, husband, father of five, grandfather, gentleman farmer, and a brain cancer survivor. He was the reason Walter Spohn was recruited to Stanford, and he was the one who promoted and made the connections that created the Anaplastology Program at Stanford. While unknown to most of us, we owe him a lot! In addition, he was one of the forerunners of modern medical mission trips – he founded Interplast, now known as ReSurge International. He was also very good at breaking rules when necessary! While he cannot be with us in person (because of health reasons), we are presenting him with the IAA's Humanitarian Award via a video interview.

CONFERENCE PROGRAM: GENERAL SESSION *Friday, 2:55 pm – 3:55 pm*

Sponsor Learning Workshop with Southern Implants – FREE TO ATTEND!

Speaker:
Sharon Zitello, Regional Manager MidAtlantic South, Southern Implants
Hjalmar Stemman, Steco System-Technik

The rehabilitation after trauma or oncology resection presents difficult surgical and prosthetic challenges. Craniofacial deformities creates serious function and aesthetic complications. These anatomic constraints of the craniofacial skeleton make it a challenge to find adequate bone for sustained osseointegration particularly in the ablated maxilla, the resected mandible and the absence of an eye or ear. Regular implant fixtures seldom satisfy the reconstruction team for sustained osseous and prosthetic retention of the rehabilitation. A range of fixtures and associated components have been developed to assist in working with the challenges of craniofacial reconstruction. The research, development, surgical planning and applications of the Oncology, Co-Axis®, MAX, and ExtraOral implants along with Steco Magnets will be highlighted and demonstrated on models of the craniofacial skeleton.

CONFERENCE PROGRAM: GENERAL SESSION *Friday, 4:15 pm – 4:30 pm*

Regeneration Medicine in Treating Oral Side Effects of Cancer Therapy

Speaker:
Mark S. Chambers, DMD, MS

Co-Author:
Jeffrey N. Myers, MD, PhD

Regenerative medicine is a rapidly expanding field that has the potential to treat serious conditions, particularly in patients with unmet medical needs. It starts with the study of human biology in normal and disease states through the use of stem cells in general and adult or pluripotent stem cells in particular. Stem cells have the remarkable potential to develop into numerous different cell types and serve as the body's primary internal repair system. The innate ability of stem cells to differentiate into other types of cells with specialized functions (blood, brain, bone, or other tissue cells) replenishes and regenerates the body from the effects of metabolic deterioration. This area of human research offers an encouraging future treatment option of oral side effects of cancer therapy, i.e., osteoradionecrosis (ORN), mucositis, dysgeusia. Stem cells are distinguished from other cell types by two important characteristics: 1) They are unspecialized cells capable of continually renewing themselves through cell division and 2) they have the potential to develop into many different cell types of the body. Given their regenerative potential, stem cells offer new opportunities for treating diseases and therapy-induced side effects.

The utilization of Regenerative Medicine and Stem Cell Therapy in the treatment of osteoradionecrosis focuses on the principles of how stem cells aid in repair and differentiation into new cell types. Stem cells are precursors to various cells in our body. If damaged cells can be replaced, vascular compromise improved, and degeneration reversed, then the ravaging effects of bone collapse in ORN may be impacted. Treatment of ORN, especially advanced ORN, is a challenging clinical issue, and there is no well-established large animal model for basic and clinical studies. Recent studies outside MD Anderson have demonstrated that bone marrow mesenchymal stromal cells (BMMSCs), which are multipotent postnatal stem cells with the capacity to differentiate into osteoblasts, chondrocytes, adipocytes, and neural cells, have therapeutic potential in irradiated tissues. This presentation will center on the development of a Regenerative Medicine Program and focus on global stem cell research specific to the oral morbidity, ORN.

Speaker Bio

Dr. Chambers received his doctorate of dental surgery from the University of Louisville (U of L) School of Dental Medicine, as well as a Master of Science in neurobiology at U of L School of Biological Sciences. He completed his combined prosthodontic training at U of L and the VA Medical Center, Louisville, as well as maxillofacial prosthodontics and oral oncology training at MD Anderson Cancer Center. Dr. Chambers received a five-year American Cancer Society Research Fellowship Award in the Department of Head and Neck Surgery and started his career at MD Anderson as a Junior Faculty Associate. Dr. Chambers is a tenured Professor, Past vice-Chair of Compliance and Regulatory Affairs (HNS), and Director of the HNC-Core Research Program (HNS) with a secondary appointment in the Department of Radiation Oncology. Dr. Chambers is an oral oncologist and clinical research investigator with a focus on developing novel therapeutic approaches to the oral sequelae of cancer therapy. He is the Chief and Medical Director of the Section of Oral Oncology and serves on numerous institutional committees, such as the Chair of the Institutional Review Board 5 (IRB 5), Chair of the External IRB Oversight Monitoring Committee, Executive IRB 3 member, past Chair of the Graduate Medical Education Committee, and Past Chair of the Clinical Research Committee (CRC), to name a few. Additionally, he has served organized medicine in various leadership roles throughout his career and continues to impact research-driven patient care through NIH and industry-sponsored protocols. In addition to his academic career, he and his wife, Rose Marie, have an equine operation in breeding, training, and showing American Saddlebred horses on their ranch in Montgomery, Texas.

CONFERENCE PROGRAM: GENERAL SESSION *Friday, 4:35 pm – 4:50 pm*

Customer Service Orientation in Healthcare: Utilizing Counseling Skills for Improved Patient Outcomes

Speaker:
Stevie Pena, Licensed Mental Health Counselor

Upon presentation completion, attendees will be able:
To describe the customer-service focus in healthcare and how this relates to funding

Identify key patient phrases indicating commitment to suggestions

Utilize motivation techniques to improve follow-through and build patient trust

Person-centered care: Hospital funding largely related to customer ratings. Patient comments are directing industries. Workers outside of counseling fields provide emotional support while treating presenting problem.

Trends: with automation, patients search for individualized treatment. Companies incorporating personalization of multiple aspects. Those who support the "person" experience better business outcomes.

Motivating change: Patients fail to comply with authoritative recommendations. Studies indicate identifying and capitalizing on the individual's personal motivation increases commitment to recommendations.

Techniques: Presentation will elaborate on and demonstrate skills, presenting practical applications and real-world scenarios.

Speaker Bio

Ms. Stevie Pena is a consulting, licensed counselor, with robust experience serving clients within health care organizations. The pinnacle of her skillset is delivering clarity on the development and application of professional counseling best practices within the broad context of services and clients situations. Talented at communicating skill acquisition to diverse sets of providers, she proudly focuses on the outcomes that impact care and organizational resiliency within her practice. Previously, Ms. Pena engaged in the analysis of workshops to triaging group dynamics between thriving and struggling groups, while addressing operational needs and task alignment serving in the United States Airforce, as a Logistical Officer. Stevie's unique background as a counseling military officer distinguishes her as an expert in counseling skills development within the utmost of high stress, high need and skill environments. Her personal and direct approach to build others, focusing on developing tenacity, intentionality, and enjoyment in personnel career outcomes, mitigates employee burnout and turnover for organizations. Ms. Pena holds a Master of Counseling Psychology and a Master of Management and has recently completed course work for a PhD in Business Psychology.

CONFERENCE PROGRAM: GENERAL SESSION

Friday, 4:55 pm – 5:10 pm

Benefits of a Virtual 3D Workflow of Custom Made External Breast Prosthesis: A Prospective Study of 40 Women

Speaker:
Gaston Bernier, DMD, FADQ

Recovery from a radical mastectomy requires the choice between an autogenous surgery, a variety of implant-based breast reconstructions, or the wearing of an external prosthesis. The women who had to follow the prosthesis solution often complained of insufficient comfort. This presentation will report an original prospective clinical trial that reports the benefits from a custom-made breast prosthesis solution designed and built with high technology to industrial ones. The QOL surveys used in this study have been designed after consultation with women involved in supportive groups for breast cancer. A special investigation was made to better understand for which subgroup of women a custom-made breast prosthesis is the most relevant

Speaker Bio

Dr. Gaston Bernier is a dental oncologist at CHU de Quebec City Hospital since 1988. He graduated from Laval University in dentistry in 1986 and completed oncological fellowships in Toronto and in Vancouver in 1988 and 1989. He was trained in clinical implants surgery and in prosthodontics in Boston in 1994. Later, he was trained in craniofacial implantology at COMPRU in Edmonton in 2000 with Dr. Wolfaardt. He is the chief of the Oncological Dental Unit and Anaplastology Service for 20 years, and an associate professor at Faculty of Dentistry Laval University. His main researches are dedicated to new medical solutions in anaplastology, ENT surgery, 3D modelization and 3D printing. Gaston also served on numerous boards like Canadian Cancer Society. He received the Fellow distinction of the Dental Academy of Quebec in 2013.

CONFERENCE PROGRAM: GENERAL SESSION

Friday, 5:15 pm – 5:30 pm

The Empirical Method in the 21st Century: How to Fit an Indwelling Ocular

Speaker:
Barbara Spohn-Lillo, AS, CCA, CF-m

While we are always trying to improve what we do through updated methods and materials, sometimes the tried and true means that have been around for centuries, are worth re-examining. In other words, "if it's not broken, don't fix it!" This presentation will explain how the empirical method of fitting indwelling eyes is still a very valid method - and why this author prefers it over other options.

Speaker Bio

Barbara Spohn-Lillo is a graduate of "the Stanford Program" taught by her father, Walter Spohn, who has been graciously given the nickname, The Father of Anaplastology. She has been in private practice in Colorado since 1981. She has served on the board of the IAA, BCCA, WST, and is a recipient of the Walter G. Spohn Award, and the IAA Humanitarian Award.

POST-CONFERENCE PROGRAM

Saturday, 8:00 am – 9:30 am

POST-CONFERENCE WORKSHOP WITH
FOURTH SEAL STUDIOS

Digital Approaches to Iris Design and Ocular Fabrication-- Photoshop Painting, Custom Brushes, Iris Photography, Scanning and SLA Printing

Fourth Seal Studios is a California-based company that uses 3D modeling and digital design to fabricate custom eyes and make-your-own-eye kits for special effects and other uses. During this presentation, Fourth Seal will demonstrate their workflow for fabrication of oculars, utilizing programs such as CAD software, ZBrush and Photoshop. Additionally, they will demonstrate their approach to digital painting and photo iris editing and show how their techniques can be integrated into the medical field and anaplastology practice.

POST-CONFERENCE PROGRAM

Saturday, 9:30 am – 12:30 pm

POST-CONFERENCE WORKSHOP WITH
RODRIGO SALAZAR GAMARRA, DDS

Accessible 3D Photogrammetry for Facial Prosthesis Data Acquisition

In this workshop, participants will be exposed to the scientific theory behind photogrammetry-based 3D scanning technology as we explore affordable photogrammetry applications accessible to anaplastologists and how to implement them into one's workflow. Participants will get hands-on practice conducting 3D scans and data management using smartphone photogrammetry software and BlenderTM, a free and open source complete 3D creation suite.

CONFERENCE PROGRAM: POSTER PRESENTATIONS

3D Printed Anatomical Learning Model in Anaplastology

This poster will show the features of our 3D printed educational anaplastology model. See how this new tool helps to improve the learning process for student in traditional prosthesis creation and how it allows to experiment new virtual process.

About the Presenter

Louise Desmeules work as an anaplastologist at l'Htel-Dieu de Qubec since 2000. She also worked as a oncology dental assistant between 1989 and 2006.She studied as a nurse and graduated in 1980.

Not Bonding to Acrylic is a Better Way for Implant Retained Silicone Prostheses

Securing retention components in a silicone prosthesis has most often involved the retention components for the prosthesis being held in an acrylic substructure and subsequently bonding acrylic substructure to silicone to retain the prosthesis.

An alternative approach involves not bonding to a silicone substructure but using silicone's inherent flexibility to fit over mechanical undercuts of a prosthetic substructure. This enables the acrylic to be easily separable from the silicone. This approach has many advantages.

Easy remakes. The patient never has to be without their prosthesis. One pulls off and the new slips on in an instant. In addition, multiple castings will fit over a single substructure so even multiple color variations can be prepared for a delivery. Multiples castings can be delivered to the patient for them to change themselves when one wears out.

More hygienic because of the ability to separate the parts and cleanse thoroughly. There is no inaccessible groove that in uncleanable. The substructure too is durable and inherently hygienic being highly polished and made of compression molded PMMA. Having highly polished acrylic at the tissue surface makes for a better environment for the peri-abutment tissue health.

More Dynamic because fit and position can be altered without the necessity of remaking the mold. Modifications can be done to the substructure to accomplish the desired result of position and fit.

A lost prosthesis is not a huge problem. In the case of a lost prosthesis, a casting can be made from the mold and a new substructure can be cast from the silicone prosthesis. The replacement retention components can be picked up clinically. In only one appointment the patient can have a prosthesis again.

In the application of these principles for multiple patients' prostheses over several years it is the author's conclusion that having the acrylic substructure easily separable from the silicone superstructure is far superior than bonding the two parts.

About the Presenters

Eric Asher, MAMS works as a Maxillofacial Prosthetist for the James J. Peters VA Medical Center, Dental Department, Bronx, NY and volunteers at the Columbia University College of Dental Medicine, New York, NY. He has 24 years professional experience practicing as an anaplastologist. He is a former president of the AAA (now IAA). Mr. Asher has authored and coauthored many professional papers and presentations focusing on improving techniques and treatments for patients in need of maxillofacial prostheses. Today's topic is a reflection of his experience and compassion for patients in need. Contact: eric.asher@va.gov

Merissa Ferrar earned her BA in Studio Arts from the University of Pittsburgh in 2011. After returning home to the Bronx, NY, she found work managing dental practices, sparking her interest in healthcare. For several years she volunteered and worked at the James J. Peters VA Medical Center and Columbia University College of Dental Medicine, earning a certificate of completion from the Maxillofacial Prosthetic Technician Training Program in 2017. During her training as an anaplastologist, she was inspired to continue her studies in dentistry and is currently pursuing her DDS at the UCSF School of Dentistry with intent to specialize in Maxillofacial Prosthodontics. Merissa remains active as an anaplastologist, now working in the UCSF Department of Prosthodontics and in collaboration with the Stanford University Cancer Center. She engages in dental and anaplastology research and organizes dental screenings for underserved populations in the Bay Area. Contact: Merissa.Ferrar@ucsf.edu

Returning "Quality of Life" with Personalized Facial Prosthetics

Introduction. The rehabilitation with facial prosthesis allows to improve the quality of life to those patients who do not have the possibility of favorable reconstructive reconstruction with traditional surgical methods and their corresponding social integration.

The purpose of this study is to evaluate the perception of the change in the quality of life in patients who have adapted facial prostheses during 20 months in Bogot, D.C. - Colombia and its social and family impact with this treatment.

Materials and methods. A telephone, email and / or personal contact was obtained with a total of 48 patients (adults and children), who were beneficiaries of facial reconstruction with auricular, NAsal and periorbital prostheses by the same anaplastologist; it was the WHOQOL-BREF instrument of the World Health Organization adapted to this study, to measure the change in the quality of life of these patients in the pre and post-prosthetic adaptation state. Results. Observe as an improvement in physical appearance greater than 95%, improvement in self-esteem over 90%, satisfaction in the development of daily activities greater than 90%, perception of social acceptance at 85%, "perception of decreased physical pain" in high percentage and decrease of feelings of frustration lower than 12% with the use of the prosthesis.

Conclusions. The facial reconstruction with the custom prosthesis improves the patient's self-esteem, restores their confidence and facilitates the family, school, work and social reintegration of the patient in their community, both in children and adults, to better enjoy their lives.

About the Presenter

Omar Gutierrez, MD, ENT

- Beginning of anaplastology activities since 2005.
- Clinical professor at school of medicine of the Universidad de la Sabana
- He works in the Otolaryngology Department of the Hospital Universitario de la Samaritana (Bogot,D.C. - Colombia) and private practice as an ENT and Anaplastologist
- Member: Asociacin Colombiana de Otorrinolaringologa, Sociedad Latinoamericana de Rehabilitacin BucoMaxiloFacial and International Anaplastology Association

Tissue Piercing-Retained Auricular Prosthesis

Osseointegration of ear prostheses is regarded as the gold standard when lifetime wear of a prosthesis seems inevitable. However, our clinics see many patients who elect not to have their microtia tissue or previous autogenous constructs removed as is typically necessary for bone-anchored prostheses. For many, a slip-over type prosthesis becomes a valuable option.

A case series of slip-over style auricular prostheses is first presented to introduce a variation featuring ear piercings prepared to magnetically attach the silicone ear prosthesis over an unsatisfactory rib-graft reconstruction. This case study follows one patient's progress over four years using this prosthesis. Possible rationale for selecting this technique may be discussed.

About the Presenter

Greg Gion is a former Art Scholar (NIU) and certified medical illustrator. He holds BA and BS degrees in these areas and a Master of Medical Science (MMS) degree. Mr. Gion trained in Chicago (UIC), started a facial prosthetics service for Northwestern Memorial Hospital and was staff Medical Sculptor in San Antonio before establishing an independent craniofacial prosthetics practice in Dallas, TX in 1985. Mr. Gion established a second practice in his hometown of Madison, WI in 2005, transferring ownership of the Dallas practice in 2012. He is certified in prosthetics in 2013 and earned national accreditation for his Madison facility in 2016. He has served in various roles in the AAA and BCCA and provided training of several professional anaplastologists.

Notes

Notes

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