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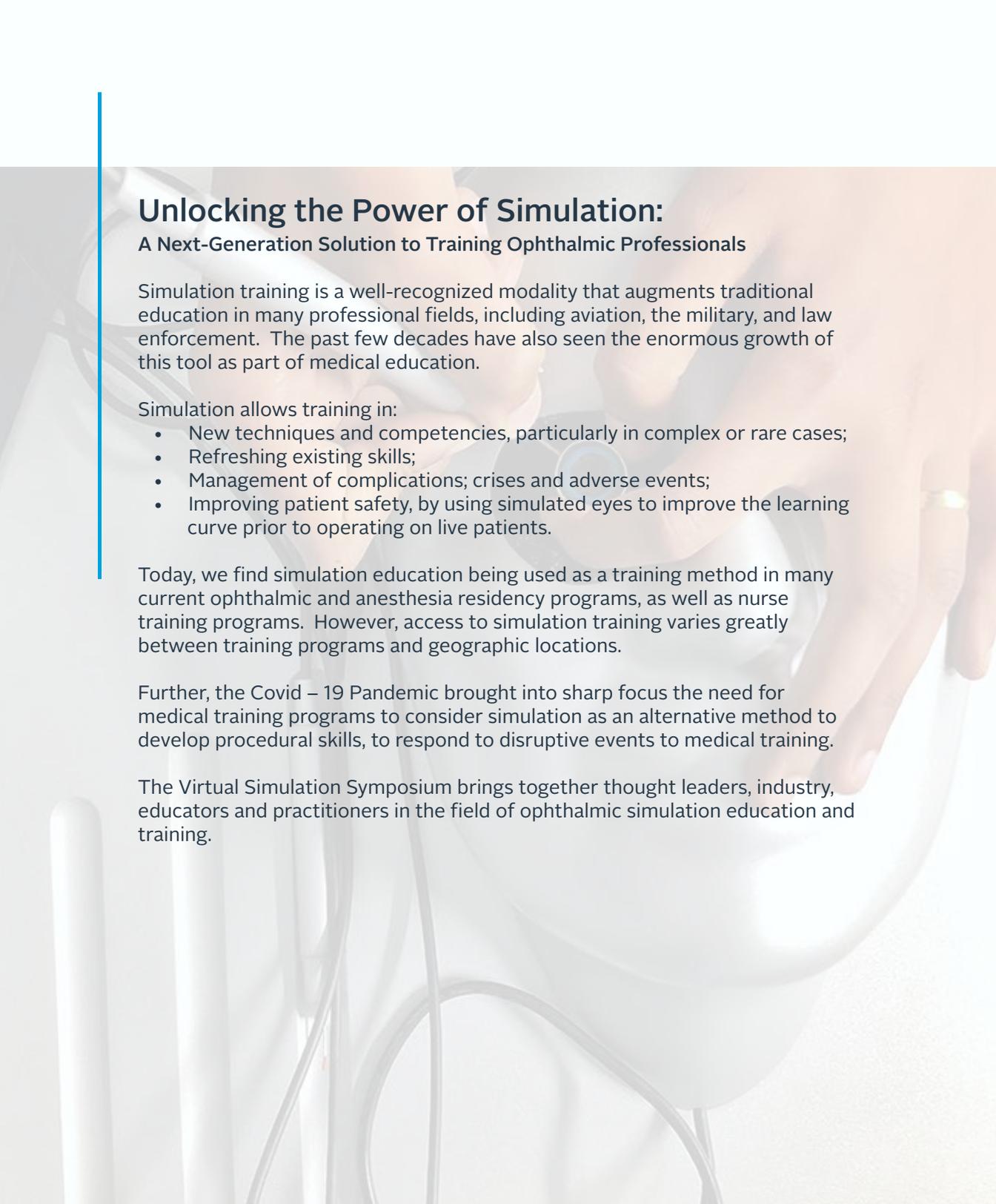
Unlocking the Power of Simulation:

A Next-Generation Solution to Training Ophthalmic Professionals

Monday, October 12-16, 2020
8:00-10:00am EDT daily

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Unlocking the Power of Simulation:

A Next-Generation Solution to Training Ophthalmic Professionals

Simulation training is a well-recognized modality that augments traditional education in many professional fields, including aviation, the military, and law enforcement. The past few decades have also seen the enormous growth of this tool as part of medical education.

Simulation allows training in:

- New techniques and competencies, particularly in complex or rare cases;
- Refreshing existing skills;
- Management of complications; crises and adverse events;
- Improving patient safety, by using simulated eyes to improve the learning curve prior to operating on live patients.

Today, we find simulation education being used as a training method in many current ophthalmic and anesthesia residency programs, as well as nurse training programs. However, access to simulation training varies greatly between training programs and geographic locations.

Further, the Covid – 19 Pandemic brought into sharp focus the need for medical training programs to consider simulation as an alternative method to develop procedural skills, to respond to disruptive events to medical training.

The Virtual Simulation Symposium brings together thought leaders, industry, educators and practitioners in the field of ophthalmic simulation education and training.

Program

The Solution: Simulation

Session 1 - October 12, 2020 - 8:00-10:00am EDT

Facilitator: *Dr. David Chang*

Introduction and Welcome Remarks: *Dr. Danny Haddad*

Lecture: What is simulation and what role does it have to play in ophthalmic education?

Speaker: *Dr. William Dean*

Launch: Orbis International's "Simulation Center Manual."

Speaker: *Amelia Geary*

Demonstration: Orbis International and FundamentalVR MSICS VR Simulator.

Speaker: *Amelia Geary and Chris Scattergood*

Demonstration: Orbis International's Flying Eye Hospital Simulation Center.

Speaker: *Dr. María José Montero Romero*

Lecture: Learning from the pioneers: What does aviation have to teach us about delivering high-quality simulation training.

Speaker: *Brian Sajdak*

Followed by Q&A

The Technology: Simulation on any budget

Session 2 - October 13, 2020 - 8:00-10:00am EDT

Facilitator: *Dr. Hunter Cherwek*

Lecture and demonstration: Philips Studio artificial eyes

Speaker: *Craig Phillips*

Lecture and demonstration: Bioniko artificial eyes

Speaker: *Andres Bernal*

Lecture and demonstration: Eyesi surgical, Indirect, Direct simulator

Speaker: *Dr. Markus Schill*

Lecture and demonstration: Biologic eyes: grapes, chicken skin, lemons, apples

Speaker: *Dr. Andreas di Luciano*

Lecture and demonstration: Task trainers and manikins (anesthesia and nursing)

Speaker: *Diane Mathé, MSN, RN, CHSE*

Followed by Q&A

Practice: Essential building blocks to a successful simulation program

Session 3 - October 14, 2020 - 8:00-10:00am EDT

Facilitator: *Clare Szalay Timbo*

Lecture: Simulation in ophthalmology: training fellows and ophthalmic residents

Speaker: *Dr. Thomas Oetting and Dr. Virender Sangwan*

Lecture: Simulation in ophthalmic nursing

Speaker: *Elisa Urruchi, RN*

Lecture: Simulation in ophthalmic anesthesia

Speaker: *Dr. Nathan Schwartz and Dr. Niroop Ravula*

Followed by Q&A

Implementation: Case studies from around the world

Session 4 - October 15, 2020 - 8:00-10:00am EDT

Facilitator: *Dr. Rishi Raj Borah*

Case Study: Pontificia Universidad Católica

Speaker: *Dr. Arturo Grau*

Case Study: Menelik II

Speaker: *Dr. Abeba T. Giorgis*

Case Study: H.V. Desai

Speaker: *Dr. Kuldeep Dole*

Case Study: Cybersight Enhanced Wet Labs

Speaker: *Clare Szalay Timbo*

Followed by Q&A

Mini-virtual wet labs

Session 5 - October 16, 2020 - 8:00-10:30am EDT

Facilitator: *Dr. María José Montero Romero*

Mini- Wet Lab One: Eyesi VR cataract surgery

Instructor: *Dr. Ivo Ferreira*

Mini- Wet Lab Two: OCP

Instructor: *Dr. Eduardo Mora*

Mini- Wet Lab Three: Strabismus

Instructor: *Dr. John Ferris*

Session 1

The Solution: Simulation

Dr. David Chang, MD, USA

Clinical Profession

University of California, San Francisco

Co-Chair American Society of Cataract & Refractive Surgery Foundation



David F. Chang, MD is a Summa Cum Laude graduate of Harvard College and Harvard Medical School. He completed his ophthalmology residency at the University of California, San Francisco where he is now a clinical professor. Dr. Chang is an executive committee member and past president of the American Society of Cataract & Refractive Surgery (ASCRS), the largest surgical sub-specialty society in ophthalmology. He is a past chair of the American Academy of Ophthalmology (AAO) Cataract Preferred Practice Pattern Panel, which develops the national practice guidelines for cataract surgery. Dr. Chang currently co-chairs the ASCRS Foundation with a focus on global cataract blindness, and he was the recipient of the 2019 AAO Humanitarian Service Award. In 2006, Dr. Chang became only the third ophthalmologist to ever receive the Charlotte Baer Award which annually honors the outstanding clinical faculty member at the UCSF Medical School. He was also twice voted the 5th most influential ophthalmologist in the world by the international readership of *The Ophthalmologist*, and he has delivered more than 40 named lectures. Dr. Chang has been in private practice in Los Altos, CA since 1984.

Dr. Danny Haddad, MD, USA

Chief of Program

Orbis International



Dr. Danny Haddad joined Orbis International in 2016 and brought with him over 25 years of experience working in global ophthalmology and neglected tropical diseases (NTD). In his current capacity as Chief of Programs at Orbis, Danny is responsible for the organization's program vision and strategy, oversight of the global program portfolio and its planning processes and implementation. He serves as Orbis's most senior program spokesperson frequently liaising with donors, policymakers, partners and the global health community.

His public health career includes recent appointments as Director of Global Ophthalmology with the Emory Eye Center at Emory University, where he developed the global ophthalmology program, linked to Fogarty Fellowship. He provided technical advice to Helen Keller International on the 35 million-dollar USAID grant, Morbidity Management and Disability Prevention Project and to Sightsavers on their DFID Trachoma SAFE Project. Before Emory, he was the Director of the International Trachoma Initiative (ITI), in Atlanta, GA. During his time with ITI Danny oversaw the more than a billion dollar donation of Zithromax in partnership with Pfizer to eliminate blinding trachoma and spearheaded the development of 2020 INSight, the end in sight, a global roadmap for the elimination of trachoma and started at ITI the Global Trachoma Mapping Project, the first mapping project of its kind. Haddad was born in Hoogezaand, the Netherlands, and received his medical degree from the State University of Groningen, the Netherlands.

Dr. William Dean, MD, UK

*Consultant Ophthalmologist, Cheltenham Hospital
Clinical Research Fellow, London School of Hygiene &
Tropical Medicine*

Dr Will Dean is a Consultant Ophthalmologist in Cheltenham Hospital, UK; Clinical Research Fellow, London School of Hygiene & Tropical Medicine; and Honorary Senior Lecturer, University of Cape Town. He is a general ophthalmologist, with specialist interest in glaucoma, cataract and emergency eye care. Will earned a master's degree in surgical education from Imperial College London, and recently completed a PhD in simulated ophthalmic surgical education in sub-Saharan Africa through the London School of Hygiene & Tropical Medicine. He has worked as Research Associate at Harvard Medical School, Boston Children's Hospital, USA; and spent four years in rural Africa as CBM Ophthalmologist & Director at Nkhoma Mission Eye Hospital, Malawi.



Amelia Geary, US

Public health programming and training specialist

Amelia holds a master's degree from Columbia University, New York, USA in Economic and Political Development and a Bachelor of Arts degree from Boston University in Medical Anthropology and African Studies. For the past two decades, Amelia has focused on program design, management and implementation in the public health sector. Amelia has managed portfolios with a strong emphasis on innovation, training and capacity building for medical professionals, hospital administrators and NGO professionals. Amelia has worked with several emergency and development organizations, including Orbis International, Action Against Hunger – USA, the United Nations Development Program, the World Bank Water and Sanitation program, and Concern Worldwide. Amelia has implemented projects throughout Africa, Asia, Latin America and the Caribbean and has lived in Senegal, Kenya, South Africa, Sierra Leone and Peru.



Chris Scattergood, UK

*Co-Founder
FundamentalVR*

Chris Co-Founded FundamentalVR with a vision to harness the latest developments in Virtual Reality and cloud computing to disrupt and democratize simulation in healthcare. Starting in orthopedics and subsequently working in ophthalmology, Fundamental VR's unique haptic (sense of touch) technology enable both realistic sensations which enable faster skills transfer, but also allow for precise data capture of a trainees' movements, providing unique insights.

FundamentalVR has created accredited and meaningful simulations across a number of sub specialties that have the power and accuracy of sophisticated VR technology, but at an affordable cost, which places VR technology in reach. FundamentalVR have worked with Orbis since 2017 to develop ophthalmology simulations and are proud to be associated with one of the most progressive and significant eye health charities in the world.



Maria José Montero Romero, MD, México

*Head of Ophthalmology
Orbis International, Flying Eye Hospital*

Maria Jose completed her residency in ophthalmology at the Asociación para Evitar la Ceguera (APEC), in México. In 2013 she started her subspecialty year in anterior segment of the eye, focusing on complicated and difficult cataract surgery. She has participated in campaigns to do free cataract surgery in places that do not often have access to it. Maria, served as head of the cataract department and teaching director, at a hospital in Mexico City in 2016. Her major interests are cataract surgery and glaucoma. Maria joined the Orbis Flying Eye Hospital team in January 2017 as a staff ophthalmologist and was promoted to Head of Ophthalmology in 2018. In her current role, Maria oversees the ophthalmology department, including patient care provided, staffing, research and training.



Brian Sajdak, USA

Pilot and Instructor

Brian Sajdak is the former Lead Instructor for the Senior Manager of Flight Training at a major transportation company. A pilot for over 31 years, Brian has over 23 years' experience as a Part 121 airline pilot. In his role as lead instructor, he has been responsible for supporting the delivery of instructional content from the curriculum design team to the instructor group. Brian is also involved with continuous improvement projects within the organization involving policy, efficiency, and safety. He has published many news articles and instructional information segments for the airline's training department. Brian is certified as an Air Transport Pilot, Flight Instructor, and Ground Instructor. Currently, Brian is pursuing a doctorate degree in Human Capital Development at the University of Southern Mississippi. Brian holds a M.Ed. specializing in aerospace education and business technology from Northwestern State University, a B.A. in Communications from the University of Illinois Champaign-Urbana and is a graduate of the University of Illinois Institute of Aviation.



Session 2

The Technology: Simulation on any budget

Dr. Hunter Cherwek, MD, USA

Vice President, Clinical Services

Orbis International



Dr. Hunter Cherwek is a global ophthalmologist with a specific career interest on how training and technologies can be used to eliminate avoidable blindness in low resource communities around the world. Dr. Cherwek received his undergraduate degree in Biology from the University of North Carolina (UNC)- Chapel Hill and his medical degree from Duke University. After his transitional year at Scripps Hospital, he completed his residency in ophthalmology at Emory University where he was elected Chief Resident. Immediately upon graduating from Emory, Hunter joined Orbis International (www.orbis.org) where he was able to lecture and work in over 20 countries aboard the Flying Eye Hospital and help build the telemedicine/distance learning platform (www.cybersight.org). After working with Orbis International, he was based in Beijing, China, for six years working with Alcon as the Medical Director of Strategic Markets to help improve surgical training efforts and access to quality cataract care in Asia & Russia. Most recently, Dr. Cherwek has returned to Orbis to continue to support its clinical training efforts and patient care programs as Vice President, Clinical Services.

Craig Phillips, UK

Founder

Phillips Eye Studio



Craig Phillips has a long career working in simulation, including simulation in trauma, accident and emergency, keyhole surgery in gynecology and obstetrics. His interest evolved to focus on micro-surgery, and he dedicated his professional career to research and development on the diversity of simulating ocular surgery to enable cognitive and surgical skill development. He founded Phillips Studio Eye (PS EYE) Ltd in 1995.

Andres Bernal, USA

Founder and CEO

Bioniko Models

Andres is an engineer, entrepreneur, patented inventor, published researcher and avid kite surfer. He graduated Summa Cum Laude from the University of Miami with a Master of Science in Biomedical Engineering. Andres was involved in ophthalmic simulation early on. In 2005 he developed accommodation simulation tools for optical bench testing and used them to publish novel structural morphology findings in the human accommodation apparatus. These tools are still used in academic and industry research labs today. Andres founded BIONIKO Consulting in 2008 to provide design and manufacturing solutions for medical researchers and startups, leveraging emerging additive manufacturing technologies. In 2014, Andres leveraged BIONIKO's advanced manufacturing know-how to develop surgical simulation tools for inside testing purposes and for its customer needs, and as demand grew in the ophthalmology space, BIONIKO MODELS was established to design, fabricate and commercialize synthetic eye models to the broader ophthalmology community. Six years later, Andres has positioned BIONIKO as a technological leader in the surgical simulation field, with multiple issued patents on surgical, optical and simulation devices, and continues to innovate in this space to further surgical simulation adoption and awareness.



Dr. Markus Schill, Germany

CEO

VRMagic

Dr. Markus Schill is CEO of VRmagic, a German-based manufacturer of virtual reality simulators for training of eye specialists. He founded the company in 2001, when an interdisciplinary team of scientists introduced the first virtual reality simulator for eye surgery. Today, Eyesi simulators from VRmagic are in use in universities and hospitals around the world. Schill has many years of experience in accompanying university clinics while integrating simulator-based training into their program.



Andreas Di Luciano, MD, Chile

Retina and vitreous Fellow

APEC - México

Andreas completed his medical degree at Universidad Finis Terrae in Santiago Chile and completed his residency in ophthalmology at the Instituto Regional De Oftalmología in Trujillo, Peru in 2017. Additionally, he completed a high-volume cataract surgery course at Agarwal's eye Institute in Chennai, India. After finishing his residency, he joined the Orbis International Flying Eye Hospital as a staff ophthalmologist from 2018 to 2020. Following his time with Orbis he worked as a simulation and surgical trainer at the Universidad Católica de Chile where he was responsible for designing simulation course curricula and training residents in the simulation center; and as an ophthalmologist in anterior segment/refractive surgery at Clínica Oftalmológica Pasteur, Santiago, Chile. He is currently a volunteer faculty for Orbis International and a retina and vitreous fellow at Asociación para Evitar la Ceguera (APEC). He's published and presented on simulation in ophthalmology since 2019.



Diane Mathé, MSN, RN, CHSE, USA

Program Manager - Centers of Excellence

CAE Healthcare

Diane has been involved with healthcare simulation for more than 15 years and has extensive experience facilitating simulation education both in the academic and practice settings. In 2010, she became a Clinical Educator with CAE (formerly METI). In this role she facilitated product training, assisted nursing programs with the integration of simulation into their curriculum and managed hospital accounts with the Nurse Residency program. Diane was part of the development team of the INACSL-CAE Healthcare Simulation Fellowship in 2015 and has facilitated three domestic cohorts. Diane had the pleasure of providing simulation education to Orbis Flying Eye Hospital in 2018. She is now the Program Manager – Centers of Excellence.



Session 3

Practice: Essential building blocks to a successful simulation program

Clare Szalay Timbo, USA

*Associate Director
Orbis International*

Clare has over ten years' experience working in the public health care sector for both international and domestic NGOs. Her principal experience includes designing, managing, and implementing programs in development, emergency and hospital environments. She has experience serving as both consultant and adviser on research, knowledge management, emergency response efforts, advocacy and monitoring and evaluation. Past roles have focused on Maternal, Child and Reproductive Health, where she's successfully executed and evaluated multiple collaborative projects. An accomplished trainer and facilitator, Clare has extensive experience working with multiple stakeholders, presenting to diverse audiences and designing training content in line with adult education principles. Currently working at Orbis International as an Associate Director, Clinical Training providing technical expertise in training and programmatic support to Ol's global portfolio, Clare is in charge of innovating new training modalities and materials. She also provides technical expertise in gender, innovations and knowledge management.



Thomas Oetting, MD, USA

*Rudy and Margaret Perez Professor of Ophthalmology
University of Iowa*

Dr. Tom Oetting is the Rudy and Margaret Perez Professor of Ophthalmology at the University of Iowa. After graduating from Duke University School of Medicine, he completed an ophthalmology residency at the University of Iowa. He is currently the Residency Program Director and the Chief of the Veterans Administration Eye Clinic. He is interested in using social media and internet based



educational material to enhance resident and post graduate education. He has received numerous teaching and service awards from the American Academy of Ophthalmology, American Society of Cataract and Refractive surgeons, the Association of University Professors of Ophthalmology and the University of Iowa.

Virender Sangwan, MD, India

Director Innovations

Dr Shroff's Charity Eye Hospital

Dr. Sangwan is a renowned ophthalmic surgeon of international repute with over twenty-five years of rich experience. He has been involved with cutting-edge research in eye care and his major contribution is in the field of translational research in ophthalmology involving limbal stem cells. He mastered the technique of cultivation of stem cell for treatment of corneal blindness and have treated over 800 patients which represents the largest human application of adult stem cell anywhere in the world. Developed a cost-effective technique of growing cells on patient's eye called SLET.



During his career, Dr. Sangwan worked with LV Prasad Eye Institute (LVPEI, since March 1998- August 2018), Hyderabad, India where he worked as the Director, Center for Ocular Regeneration (CORE) and Srujana- Center for Innovation. He has also been associated with the Department of Ophthalmology, Harvard Medical School, MA (USA) and with the DC-10 Flying Eye Hospital of Orbis International, Inc. New York USA earlier in his career. Currently Director Innovations at Dr Shroff's Charity Eye Hospital, Daryagnaj, New Delhi. His academic study included Harvard Medical School Boston, MA. USA, Immunology and Uveitis Service, Massachusetts Eye and Ear Infirmary, Department of Ophthalmology: July 1996 to January 1998.

Dina Elisa Urruchi Huamán, R.N., Peru

Staff Nurse

Orbis International, Flying Eye Hospital

Elisa graduated with a Bachelor of Nursing at the Universidad Nacional del Centro del Peru, and completed a Master Degree in health services management at the Universidad Inca Garcilaso de la Vega. Additionally, she obtained an ophthalmological care specialist diploma. One of her



main achievements is being a co-founder of the Ophthalmological Nursing Peruvian Association, in which she still is part of the executive board.

She worked at the Instituto Nacional de Oftalmologia as a scrub nurse for 4 years. She has also worked for the Ricardo Palma Clinic for 11 years –as part of the Oftalmologos Contreras practice, in-charge of the ophthalmological service. She worked for MACULA D&T Clinic holding the position of head nurse. Elisa joined the FEH team in January 2011 as a staff nurse and is a leader in ophthalmic nursing simulation for the Flying Eye Hospital.

Nathan Schwartz, MD, USA and Chile

*Associate Clinical Professor
Baylor School of Medicine
University of Texas, Galveston*

Dr. Nathan Schwartz is an Associate Clinical Professor, specializing in pediatric anesthesiology and pain management at Baylor School of Medicine and the University of Texas, Galveston. His interests include pediatric simulation training, pediatric pain management and negotiations for the anesthesiologist. Dr. Schwartz is a staff anesthesiologist with Orbis International.



Niroop Ravula, MD, USA

*Associate Clinical Professor
University of California, Davis*

Dr. Niroop Ravula is an Associate Clinical Professor, specializing in pediatric anesthesiology and pediatric cardiac anesthesiology at University of California Davis. His research interests include difficult pediatric airway, team building and simulation training. Dr. Ravula is a volunteer faculty member with Orbis International and has delivered simulation training in multiple global locations.



Session 4

Implementation: Case studies from around the world

Dr. Rishi Raj Borah, India

*Country Director
Orbis International*

Rishi joined Orbis 12 years ago and has advanced through progressively to his current posting as the country Director of Orbis India. He leads Orbis' programs in India, Indonesia and Nepal. Over the years, Rishi has developed innovative, impactful and sustainable home-grown eye care initiatives for communities across India and Nepal. Before Orbis, he worked with programs supported by UNICEF and CORDAID.



Rishi has committed an enormous part of his life to help ensure that children across the country have a better life. His commitment to working on the ground tirelessly continued as he joined Orbis in 2007 and will continue further as he now leads the team at Orbis India. He was awarded the "Eye Health Hero" by International Agency for Prevention of Blindness (IAPB) in 2017.

Arturo E. Grau, MD, Chile

*Assistant Professor
Pontificia Universidad Católica de Chile*

Arturo E. Grau is a physician specialized in Ophthalmology. As an expert in cornea and ocular surface diseases, he is the Chilean Ambassador of the Tear Film and Ocular Surface Society (TFOS). Currently he works at Pontificia Universidad Católica de Chile (PUC) as an Assistant Professor in the School of Medicine. He heads the Simulation Center of the PUC for training residents in ophthalmological surgery. With a master's degree in bioethics, he is part of the PUC Bioethics Center, specializing in the role of the Ophthalmologist in the social model of disability and Bioethics education during Ophthalmology residency training. Dr. Grau's social vocation led him to create OcuLab UC, a social innovation laboratory for visual impairment. This laboratory develops multidisciplinary projects focused on entrepreneurship, culture and education, including social aspects of visual impairment. Dr. Arturo Grau lives in Santiago with his wife Daniela and their three kids: Arturo (7), Carmen (5) and Candelaria (1).



Abeba T. Giorgis, MD, Ethiopia

*Associate Professor and consultant ophthalmologist
Glaucoma specialist
Department of Ophthalmology, School of Medicine,
College of Health Sciences
Addis Ababa University*



Dr Abeba did both her undergraduate and postgraduate studies at Addis Ababa University in 1992 and 2001, respectively. Her glaucoma fellowship training was at Wills Eye Hospital, Thomas Jefferson University, PA, USA in 2009, as an Orbis fellow. She has been serving the Department of Ophthalmology as an academic staff since 2006. She leads the glaucoma unit of the Department and currently, directs the glaucoma fellowship program. Dr Abeba is also the department's wet lab coordinator of the and she is one of the contributors of Wet lab Manual, used by residency programs nationwide.

Kuldeep Dole, MD, India

*Medical Director
H.V Desai Eye Hospital, Pune, India*



Dr. Kuldepp Dole is a practicing ophthalmologist in the cataract and medical retina service, as well as the Medical Director at H.V Desai Eye Hospital in Pune, India. He has a master's degree in Community Eye Health from the London School of Health and Tropical Medicine, which he applies by leading a team of health workers to accomplish objectives set in eye health projects, coordinating with INGOs, preparing reports, developing strategies, looking after the budget and public relations work.

He provides training for paramedical ophthalmic assistants, as well as being a post-graduate teacher involved in teaching degree and diploma courses in ophthalmology. In his role as medical director, he is involved in research planning and policy making for at H.V Desai Eye Hospital. To date, he has worked as a consultant, technical advisor and/or volunteer faculty for Orbis International, Sight Saver International, Seva Foundation, Lions Club and ISO supported projects in India.

Session 5

Mini-virtual wet labs

Ivo Ferreira, MD, Uruguay and Mexico

Co-Founder and CEO of Oftalmouniversity & Phacomentors

Medical Director Simulation Center in Mexico City Country:

Ivo trained in UNAM University Mexico in Anterior Segment. He is the co-Founder of Oftalmouniversity, Oftalmocast and Phacomentors. Focused on cataract surgical training, Ivo trains residents in Mexico City at the Instituto de Oftalmología Conde de Valenciana and is the Medical Director of the virtual simulation center in Mexico. He is currently completing a master's degree in Medical Education in Dundee University, Scotland.



Eduardo Mora, MD, Panama

Staff Ophthalmologist

Orbis International, Flying Eye Hospital

Eduardo graduated from the University of Panama Medical School in 2007 and obtained his degree in ophthalmology from San Cecilio Hospital, Granada, Spain in 2014. In 2015, Eduardo completed his fellowship in Oculoplastic at the Asociación para Evitar la Ceguera (APEC), in México. He practiced at Luis Fábrega Hospital from 2015 to 2019. He joined the Orbis Flying Eye Hospital in 2019 as a staff ophthalmologist and also holds professorship at the Latina's University Medical School, where he heads the ophthalmology program.



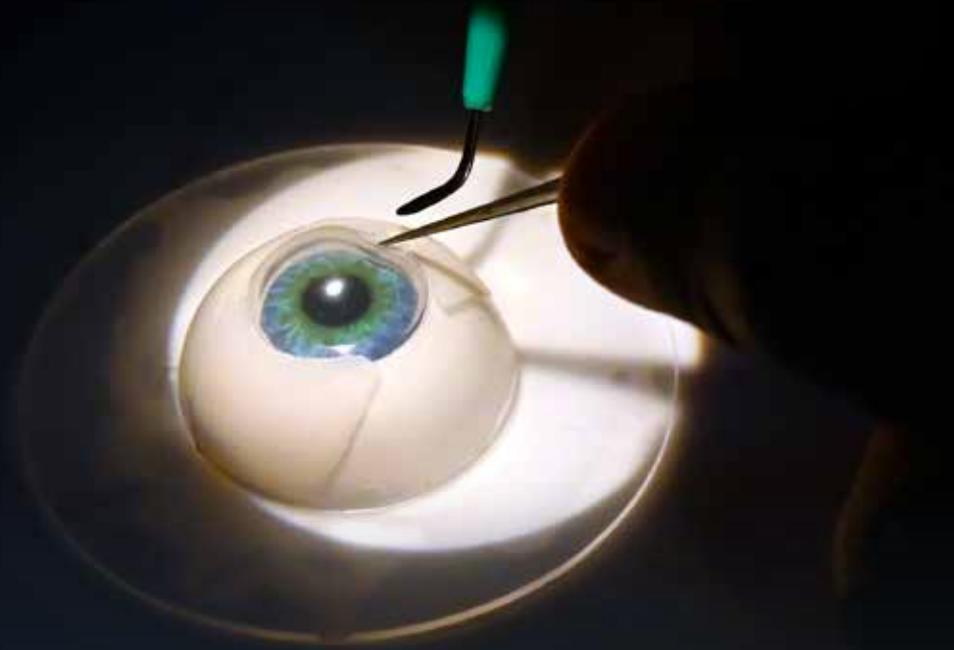
John Ferris, MD, United Kingdom

Surgical Skills Faculty Lead

Royal College of Ophthalmologists

John Ferris is the Surgical Skills Faculty Lead for the Royal College of Ophthalmologists. He has designed the Simulated Ocular Surgery and Simulation Gallery websites which demonstrate how to use simulation to teach a wide variety of ophthalmic surgical procedures. He is the co-author of Strabismus Surgery published by Elsevier, which was the first video atlas of strabismus surgery. In recent years he has pioneered the development of digital dry-labs, using Zeiss Stemi microscopes, to deliver courses on cataract surgery complications, ocular trauma, glaucoma and corneal surgery and has been part of the Orbis Volunteer Faculty delivering simulation training in Trujillo, Peru and Santiago, Chile.





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