



**SICON2022**  
**PURPOSE**  
**FUELS PASSION**  
**20 - 23 MARCH**

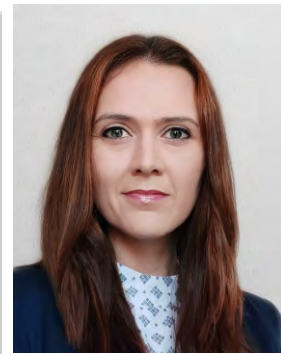
## Welcome to **SICON2022**



Graham Blackbeard  
Forum Director



Sue Odendaal  
Forum Chair



Tamsin Cracknell  
Academic Program Co-ordinator



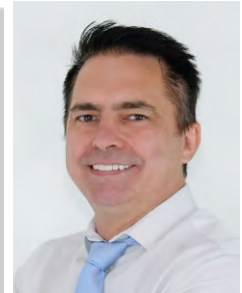
Liesl Muller  
International Forum Co-ordinator



Kirosha Ramdan  
Academic Program Co-ordinator



Michelle Peo  
Forum Co-ordinator



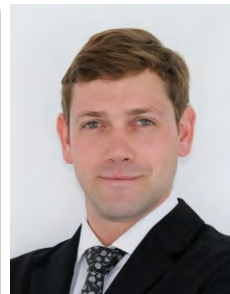
Michael Duggan  
Forum Co-ordinator



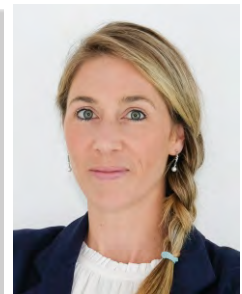
Nick Soupen  
Forum Co-ordinator



Marius Gouws  
Function Co-ordinator



Stuart Blackbeard  
Function Co-ordinator



Joanna Pieters  
Function Co-ordinator



Welcome to **SICON 2022**, our first big get-together since Hermanus in 2018!

To me, the greatest value of these forums is the stimulation of passion and the reaffirmation of our purpose. The camaraderie, the discussion and the learning from each other, invigorates both clinicians and our staff members.

Thank you to all presenters for their unselfish sharing of their wisdom.

My thanks to all attendees for the sacrifices made, to be part of this Southern family get-together.



**Graham Blackbeard**  
Managing Director, Southern Implants



# SPECIAL ANNOUNCEMENTS

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## Name Tags

Name tags will be included in your conference registration pack.

Delegates are requested to wear name tags at all times which is incorporated with a RFID coded, electronic tag. This will monitor access to the conference area, lunches and all other facilities, as well as track attendance of lectures for CPD points.

Nametag pouches will contain:

- Pocket program.
- Luggage tag label.
- Gala evening ticket - must be presented for entry to gala evening.

## Lunch

Lunch will be served in the Koi Restaurant (for conference delegates only).

Cash bars and partners for your own account.

Please adhere to time schedule as our academic program is extremely tight.

## Transfers

Please note that transfers are for your own account and can be paid on the day of check out.

## PCR Tests

A concierge service will be available at the hotel in the Sphere/Southern Implants office room for conducting PCR COVID tests. Should you require a test, kindly inform the Southern Implants staff members at the registration table, who will assist you in booking a time slot for your test. Please ensure you are aware of the COVID test entry requirements of your destination country.

## Emergency Numbers

International dialling code for South Africa is:	+27
Hospital: Intercare, Pretoria East	012 945 3000
Pharmacy: Clicks, Menlyn Maine	012 348 4432
Police: (toll free)	10111
Reception: The Capital, Menlyn Maine	012 942 5000
Michelle Peo	079 498 6363
Sue Odendaal	083 309 6916

## Security

While risk of crime is low in this area, tourists are advised to remain vigilant when walking or driving, avoid carrying/wearing valuable items in public, and minimise interaction with strangers. Please feel free to consult Southern Implants or hotel staff at any time regarding appropriate safety precautions.

## Program Overview

### Sunday

Registration	12h00 - 14h00
Academic Program	14h00 - 16h30
Welcoming reception/cocktail function	18h00 - 21h00

### Monday

Registration	07h30 - 08h30
Academic Program	08h30 - 17h00

### Tuesday

Academic Program	08h00 - 17h00
Gala Dinner	19h00 - till late

### Wednesday

INVERTA® Hands-on	<b>Zwartkops Raceway</b>
Lectures: Southern Implants - The inside story	08h00 - 13h00
Zwartkops Mercedes AMG Track Experience	08h00 - 17h00

## PROGRAM

**Oncology Expert Exchange Forum**

Parallel Session

14h00 - 16h30

Room: The Octagon, Section 1

Dr Stavros Eleftheriou

Session Chair

14h00 - 14h20

Prof Dale Howes

The evolution of osseointegration in head and neck rehabilitation

14h20 - 14h40

Dr Greg Boyes-Varley

Surgical management of the head and neck patient

14h40 - 15h00

Prof Chris Butterworth

Management of the malignant low level maxillectomy

15h00 - 15h20

Dr Noland Naidoo

Treatment options in mandibular reconstruction

15h20 - 15h40

Dr Michael Michael

Osseointegration and radiation therapy

15h40 - 16h00

Prof Cules Van Den Heever

Craniofacial reconstruction

16h00 - 16h30

Audience participation and discussion

**Overdentures Expert Exchange Forum**

Parallel Session

14h00 - 16h30

Room: The Octagon, Section 2

Steve Snook

Session Chair

14h00 - 14h15

Prof Craig Barclay

Evolution of the ILZ overdenture mini-implant from concept to current-day techniques in the UK

14h15 - 14h45

Prof Hugo De Bruyn and Prof Anita Visser

Geriatric patients and implant dentistry: blessing or burden?

14h45 - 15h15

Dr Nic Egbert

Overdentures to suit patient needs, desires and budget

15h15 - 15h45

Dr Selwyn Kabrun

Implant assisted vs implant-supported and implant-retained overdentures

15h45 - 16h30

Audience participation and discussion





## PROGRAM

Room: The Octagon

07h30 - 08h30	Registration	
08h30 - 08h50	Graham Blackbeard Welcome address by Southern Implants Managing Director	
	Dr Petros Yuvanoglu	Session Chair
08h50 - 09h30	Dr Izchak Barzilay 35 years of career-spanning experience solving implant complications	
09h30 - 10h00	Dr Phillipe Khayat Prevention and treatment of peri-implantitis: efficient strategies	
10h00 - 10h20	Dr Mehdi Valizadeh Debunking common myths about treating posterior jaws	
10h20 - 11h00	Dr Stephen Chu and Dr Stephanie Chu The INVERTA® implant system: past, present, and future strategies	
11h00 - 11h20	Tea Break	
	Dr Noland Naidoo	Session Chair
11h20 - 11h40	Dr Anton Dank Machined surfaces revisited	
11h40 - 12h10	Prof Dr Stefan Vandeweghe and Dr Manú van Weehaeghe Will my implant last?	
12h10 - 12h50	Dr Barry Levin The Dermal Apron Technique® as an alternative in thin biotypes	
12h50 - 13h20	Dr Stavros Eleftheriou Bone regeneration using a novel design of titanium mesh membrane	
13h20 - 14h20	Lunch	KOI Restaurant
	Prof Hugo de Bruyn	Session Chair
14h20 - 15h00	Dr Howard Gluckman Partial extraction therapy using INVERTA®	
15h00 - 15h30	Dr Rolf Bettens A novel surgical approach to pterygoid implant treatment	
15h30 - 16h15	Dr Andriana Nicolopoulos and Dr Costa Nicolopoulos Management of failed implant cases	
16h15 - 16h45	Dr Petros Yuvanoglu Abutment materials and decision factors in selecting the right abutments	
16h45 - 17h05	Dr Avish Jagathpal Full arch implant impressions	

## PROGRAM

	Dr Michael Michael	Session Chair
08h00 - 08h40	Dr Guy McLellan Using modern zygomatic implants to tailor treatments for individual cases	
08h40 - 09h10	Dr Rudi Mukherjee Pterygoid implants: an undeniable weapon against the atrophic maxilla	
09h10 - 09h30	Dr Costa Nicolopoulos Why external connections outperform internal connections	
09h30 - 09h50	Dr Karmisha Naidu To 3D print frameworks or not? Passivity of fit and cost compared to cast frameworks	
09h50 - 10h40	Dr Riz Syed Zygomatic implants: the legacy, new developments and applications in treating the atrophic maxilla	
10h40 - 11h10	Tea Break	
	Dr Barry Levin	Session Chair
11h10 - 11h50	Dr Gary Morris and Dr Mark Steinberg Measuring the positive impact of site-specific implants on practice efficiency and patient outcomes	
11h50 - 12h10	Dr Nic Egbert Optimising quality, efficiency and economics in private practice implant dentistry	
12h10 - 12h30	Dr Dominic O'Hooley Ensuring patient safety when accelerating treatment	
12h30 - 13h30	Lunch	KOI Restaurant

PROGRAM

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**INVERTA® Expert Exchange Forum**

13h30 - 17h00

Room: The Octagon

13h30 - 13h40	<b>Dr Stephen Chu</b>	Session Chair
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13h40 - 14h00	<b>Dr Nic Egbert</b> INVERTA® in full arch cases	
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14h00 - 14h10	<b>Dr Peter Fairbairn</b> True host bone regeneration: a clinical and scientific look at EthOss®, a new-generation synthetic	
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14h10 - 14h40	<b>Dr Stefano Gracis</b> Prosthetic challenges of buccally inclined implants in the aesthetic area	
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14h40 - 14h50	<b>Dr Noland Naidoo</b> INVERTA® in oncology cases	
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14h50 - 15h00	<b>Dr Dominic O'Hooley</b> INVERTA® in premolars	
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15h00 - 15h10	<b>Prof PO Östman</b> Follow-up of first ever INVERTA® implants	
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15h10 - 15h20	<b>Dr Hanae Saito</b> Bringing "big data" to dentistry: The INVERTA® registry project	
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15h20 - 15h50	<b>Prof Dr Véronique Christiaens and Dr Marco Tüdts</b> INVERTA® - a reverse tapered Body Shift™ implant for fully guided immediate placement	
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15h50 - 16h20	<b>Dr Wynand Van der Linden and Dr Peter Van der Meulen</b> INVERTA® implants in the posterior regions	
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16h20 - 17h00	Audience participation and discussion	
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19h00 - till late	<b>Gala dinner: Phantom of the Opera</b>	
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CELEBRATING

  
YEARS

*You Are Invited*

to a Phantom of the Opera  
Gala Dinner!

**19:00**

Tuesday Evening  
22nd March 2022

**VENUE:**  
**THE CAPITAL**  
**MENLYN MAINE HOTEL**

**DRESS CODE: BLACK TIE**

[www.southernimplants.com](http://www.southernimplants.com)



## PROGRAM

**Southern Implants: the inside story**

Parallel Session

08h00 - 17h00

Zwartkops Raceway

**Graham Blackbeard**

Session Chair

**Graham Blackbeard** Managing Director  
Emergence diameter considerations

**Stuart Blackbeard** Sales Engineering Manager  
Zygomatic implant designs: the good, the bad and the ugly

**Alex Stuart-Smith** Senior Design Engineer  
Counting the millimeters: Co-Axis® implants vs Angulated Screw Channels

**Nicholas Soupen** Marketing Manager  
Subperiosteals using digital and 3D metal printing technology

**Graham Blackbeard** Managing Director  
Why TMJ replacements must be custom-made

**Leith Cumming** Chief Engineer  
Meet the engineers: a clinician's guide to design when innovating new products

**Ruvarashe Ndoora** Head of Secondary Processing  
**and Alex Stuart-Smith** Senior Design Engineer  
Implant surfaces: manufacturer secrets

**Tamsin Cracknell** Head of Clinical Affairs  
How the new Medical Device Regulations (MDR) are eliminating small implant companies

**Graham Blackbeard**  
Closing address

**NOTE:** Lectures to be presented in intervals between racing activities.

## PROGRAM

### Inverta Hands-On Workshop

08h00 - 13h00

Parallel Session

Zwartkops Race Track

13h00 - 14h00    Closing and Lunch

### Zwartkops Mercedes AMG Track Experience

All-day activities including skid-pan, racetrack, simulator and 4x4 driving

08h00 - 17h00

**A transfer shuttle from The Capital Hotel to Zwartkops Racetrack will depart from outside the main entrance at 06h45.**

Secure luggage storage facilities will be provided at the track.





**Dr Stavros Eleftheriou**

Session Chair

**Prof Dale Howes****The evolution of osseointegration in head and neck rehabilitation**

14h00 - 14h20



Head and neck cancer is reported to form 4% - 6% of cancers, but is arguably the most morbid. WHO statistics show that this disease actually rivals breast cancer in incidence but carries nearly twice the mortality in the developing world while holding the one of the greatest economic impacts on disability affected life years in low-income countries. This makes cost effective management and rehabilitation of these patients into society so important.

This lecture will outline the journey we have travelled and innovations crafted in the quest for improved outcomes in head and neck cancer management.

Prof Dale Howes (B.Sc. (Dent); BDS; M.Dent (Wits); FCD (SA) Pros; FICD) is the Director of the Doctor of Clinical Dentistry programmes and course coordinator for post graduate prosthodontics, School of Dentistry, University of Sydney, Australia. He was previously the Chair of the Department of Oral Rehabilitation at the University of the Witwatersrand in Johannesburg, South Africa.

He is the Vice President of the ICP (International College of Prosthodontists) and immediate past president of the ISMR (International Society for Maxillofacial Rehabilitation and past president of the Academy of Prosthodontics of South Africa.

He has received peer reviewed fellowships from the Colleges of Medicine of South Africa and the International College of Dentists serving as the regional Vice Regent and is the recipient of the Premier Award of the South African Dental Association (2016).

**Dr Greg Boyes-Varley****Surgical management of the head and neck patient**

14h20 - 14h40



Dr Boyes-Varley has been in specialist private practice since 1987, and provided advanced applied surgical services for both the Oral and Maxillofacial Surgery service and the Multidisciplinary Head and Neck Oncology Reconstruction Unit at the Morningside MediClinic, South Africa. He has been a part-time Senior Consultant/Senior Lecturer within the Department of Maxillofacial and Oral Surgery at the University of the Witwatersrand, Faculty of Health Sciences in Johannesburg, and an examiner and faculty member for the College of Maxillofacial and Oral Surgeons of the Colleges of Medicine of South Africa. Dr Boyes-Varley is past president and Executive Committee member of the Society of Maxillofacial and Oral Surgeons of South Africa and is the current Immediate Past President. Greg spent two years at King's College School of Medicine and Dentistry in London in the academic department of Oral and Maxillofacial Surgery, where he learned head and neck oncology and related reconstructive surgery, craniofacial implantology and cleft lip and palate reconstructive surgery.

His research together with Prof Dale Howes has resulted in several revolutionary implant innovations for head and neck and standard implant rehabilitative protocols, including the Southern Implants zygomatic, oncology and Co-Axis implants. He and Prof Howes were invited by Professor P-I Brånemark together with Prof Dale Howes to present their work to the 40th anniversary World Celebration of Osseointegration in Sao Paulo in 2005. Dr Boyes-Varley has written two book chapters on facial reconstruction following facial oncology resection.



**Prof Chris Butterworth****Management of the malignant low level maxillectomy**

14h40 - 15h00

Accelerating maxillary rehabilitation with the Zygomatic Implant Perforated (ZIP) Flap technique: learning points after 5 years' experience.

This short presentation will outline the ZIP Flap technique, present the outcomes of treatment for the initial 40 patients treated in Liverpool as well as discuss the drawbacks, limitations and complications together with the drive to establish a clear treatment protocol that can be easily adopted in other units.

Prof Chris Butterworth BDS(Hons), MPhil, FDSRCS (Eng), FDS (Rest Dent) RCS (Eng) is a consultant in Maxillofacial Prosthodontics at the Liverpool University Hospitals NHS Foundation Trust, and an Honorary Professor in Maxillofacial Prosthodontics with the Head & Neck Centre at the University of Liverpool. He is a Maxillofacial Prosthodontist who has pioneered the combination of skeletally anchored osseointegrated implants in combination with microvascular free flap reconstruction for patients with maxillary and mid-facial malignant diseases. His unit in Liverpool is known internationally through his developments such as the ZIP flap reconstructive technique.

**Dr Noland Naidoo****Treatment options in mandibular reconstruction**

15h00 - 15h20

There have been many surgical rehabilitation techniques reported to rehabilitate patient's osseous architecture post mandibular resection. However, the literature is scant with regards to the prosthetic and functional outcomes after the surgical rehabilitation.

Dr Naidoo will discuss the various techniques that have been used to surgically rehabilitate a cohort of patients which include:

- particulate autogenous grafts from the anterior and posterior iliac crests
- a sandwich technique employing a split costochondral graft technique with particulate autogenous from grafts the posterior iliac crest
- a vascularised free fibular flap
- distraction osteogenesis

The presented cases will compare the various techniques used to functionally rehabilitate these patients.

Dr Noland Naidoo (BChD, PDD) is a prosthodontist in private practice in Sandton, Gauteng. His daily focus deals with the functional rehabilitation of patients with a focus on quality-of-life outcomes. As a member of the Morningside Head and Neck Forum, which is formed by a multitude of specialists and allied health workers who manage head and neck oncology, he and his partners play a pivotal role in the rehabilitation and reintegration of these patients into society.

Dr Naidoo is a member of many local and international associations. He is currently a board member of the International College of Prosthodontists (ICP) and is also an invited faculty member of the Future Leaders in Prosthodontics (FLiP). In addition to these he is a member of The International Society for Maxillofacial Reconstruction (ISMR), the International Team of Implantologists (ITI), the Academy of Prosthodontists South Africa (APSA) and the South African Dental Association (SADA).

**Dr Michael Michael****Osseointegration and radiation therapy**

15h20 - 15h40

Ionising radiation is associated with debilitating morbidity for patients being managed for head and neck cancer. Risks include radiation-induced caries, oral mucositis, permanent xerostomia and osteoradionecrosis. The occurrence of these is often unpredictable and individual-specific. Reduction in the risks of these sequelae requires quick decision making and execution of treatment by the oral surgical and prosthodontic team. Where indicated, implant-supported prostheses present the most appropriate option to maintain the best possible quality of life. This forum lecture will aim at exploring decision-making for these patients with the use of osseointegrated dental implants.



Dr Michael (MDent, BDS) obtained his Masters of Dentistry in Prosthodontics (with distinction) from the University of the Witwatersrand, winning several awards including the Gold Medal of the Dental Graduates Association and the South African Dental Leadership Award. In addition, he won the class prizes for Removable and Fixed Prosthodontics, Maxillo-Facial & Oral Surgery, Periodontology, Orthodontics, Operative Dentistry, Paedodontics, Dental Materials. He also was awarded 1st place in a national research protocol competition and the best post-graduate research poster for implant dentistry at the School of Oral Health Science Research Day.

He is a member of several local and international societies including the International College of Prosthodontists (ICP), the International Society for Maxillofacial Rehabilitation (ISMR), the Future Leaders in Prosthodontics (FLiP), the International Team for Implantology (ITI), the Academy of Prosthodontists South Africa (APSA) and the South African Dental Association (SADA). Having presented internationally in Turin, Seoul, Belgrade, Santiago and Amsterdam. His passion lies in multidisciplinary craniofacial rehabilitation and he works within the Morningside Head and Neck oncology team. He is currently in private practice and a partner in Sandton Prosthodontics, Johannesburg.

**Prof Cules Van Den Heever****Craniofacial reconstruction**

15h40 - 16h00

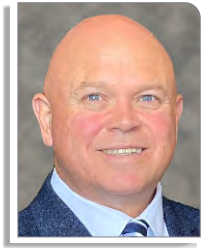
Surgical and prosthodontic restoration of the midfacial region following tumour resection has always posed a considerable challenge, as this area serves crucial functional and aesthetic roles. Being diagnosed and subsequently treated for facial tumours can have an immense psychosocial impact on a patient, as the resulting defects are often disfiguring, and lead to an inability to masticate, swallow, and speak clearly. Provision of an immediate facial and dental prosthesis at the time of surgery can limit these side effects and help reduce mental duress on these patients and their families, as well as aid in the process of rehabilitation.

This presentation will give an overview of techniques developed over the last 20 years using Southern Implants products. The ever-increasing role of additive manufacturing in maxillofacial prosthodontics will also be discussed.



Cules van den Heever is a Visiting Professor at the Centre for Rapid Prototyping and Manufacturing, Dept of Mechanical Engineering and Mechatronics at the Central University of Technology. He is the clinical advisor to the MedAdd at the CUT, Senior Specialist at the Dept of Prosthodontics, School of Dentistry, University of Pretoria and Senior Consultant, Dept of Prosthodontics, University Western Cape, Cape Town. His fields of interest and expertise include maxillofacial prosthodontics, anaplastology, osseointegrated implant therapy, and additive manufacturing. He has lectured at several national and international forums on these topics.

The recently established MedAdd at the CRPM aims to enable students, researchers and industry to develop the required technology skills for innovation in the use of additive manufacturing for medical devices, making ground-breaking advances developing novel ways of digitally manufacturing prostheses for use in the rehabilitation of patients with extensive head and neck defects. MedAdd will enhance equipment and capabilities at CUT for academic partners and local companies to demonstrate reproducibility and scale-up of innovative medical device products. It will also be available for companies to industrialise new products, de-risking their development

**Steve Snook**

Session Chair

**Prof Craig Barclay**

Evolution of the ILZ overdenture mini-implant from concept to current-day techniques in the UK

14h00 - 14h15



From 2012 to 2014 a team in Manchester, with Prof Barclay as principal investigator, ran a randomised controlled trial comparing two mini dental implants in the mandible to two conventional dental implants for retention of a complete lower denture.

The results of the NIHR funded clinical trial were published in 2017. As a direct result of this work, in 2015 Prof Barclay met with the Mr of Southern Implants, Mr Graham Blackbeard, to design the Southern Implants ILZ mini dental implant.

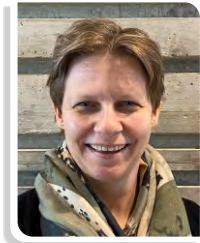
This presentation will summarise the design journey, present three and five year follow up of the Southern Implants ILZ mini-implant in practice, and discuss the laboratory studies of this implant which show the benefits of the design. Delegates will gain insight into the lessons learned throughout development and the clinical benefits of this implant.

Prof Barclay qualified BDS in 1986 from Glasgow, and took up his current NHS consultant post at Manchester in 2002. He is a Consultant in Restorative Dentistry and Honorary Professor in Maxillofacial Rehabilitation, Associate Dental Postgraduate Dean for Specialist Training and Director of Education for Manchester Dental Education Centre.

He has published over 50 refereed papers, written three books and has lectured both nationally and internationally on head and neck cancer and dental implantology.

He was a past President 2009-2010 for the British Society of Prosthodontics (BSSPD), and past Director of the MSc implant programme at the University of Manchester. He is the chair of chairs of all Dental Intercollegiate Speciality Fellowship Examinations, and is currently a MRD Examiner.

He has won two NHS North West Innovation Awards in 2008 and 2009 and was awarded a MAHSC Chair in June 2014 in the field of Maxillofacial Rehabilitation.

**Prof Hugo De Bruyn****Prof Anita Visser****Geriatric patients and implant dentistry: blessing or burden?**

14h15 - 14h45

The older people get, the higher their chance for developing diseases and becoming frail. In addition, preserving good oral health and oral function is a challenge too.

From literature we know that many elderly people face severe oral health problems which in turn is a threat for social wellbeing and general health. Maintaining good oral health and oral function is therefore a priority for the dental care professional. But how can we do that? Treating frail elderly is complex and often means dealing with polypharmacy, severe health problems, mobility problems, dementia, nursing homes, outdated prosthetic devices, etc. In the domain of implant dentistry, we have two main issues: what to do with failing implants placed long ago, and what to do when implant dentistry seems to be the only solution for functional problems.

In this lecture we will take you into the geriatric world and give an overview of complications and possible solutions in the domain of implant dentistry.

Prof Dr Hugo de Bruyn is Professor of Dentistry in Special Periodontology and head of the Department of Dentistry at Radboud University. He is part-time professor of periodontology and oral implantology at the University of Ghent.

He obtained his dental degree in 1983 at the Catholic University of Leuven, his PhD in 1987 at the University of Groningen, and a post-doctorate at Lund University, with a grant from the Niels Stensen Foundation. He further specialized in periodontology and then worked there as a teacher and visiting professor.

From 1988 to 2004 he worked as a specialist in a referral practice for periodontology and oral implantology in Brussels. From 2004 to present he has been professor of periodontology, head of the MSc programme for periodontology and the postgraduate course "Oral Implantology", and leader of the periodontology, oral implantology and implant prosthetics research cluster at Ghent University.

He has more than 200 international publications in the fields of periodontology and oral implantology and is a much sought-after international speaker. His research interests lie in sustainable and cost-efficient treatments with oral implants.

Dr Anita Visser (DDS PhD) graduated in 1996 as a dentist from the Radboud University Nijmegen, the Netherlands. After her graduation, she worked for 25 years as a maxillofacial prosthodontist and geriatric dentist at the Department for Oral Surgery and Special Dental Care of the University Medical Center Groningen (UMCG), part of the University of Groningen.

She obtained her PhD in 2009 and was recognised as a geriatric dentist in 2014 and a restorative dentist in 2015. She coordinates research and educational projects in special dental care with a focus on oligodontia, implant dentistry, head-neck oncology and geriatrics. She has contributed to numerous papers, international conferences and book chapters, and has participated as an invited speaker in many national and international congresses.

In April 2019 she became professor in geriatric dentistry at the University of Groningen, and in 2021 at the Radboud University of Nijmegen.



**Dr Nic Egbert****Overdentures to suit patient needs, desires and budget**

14h45 - 15h15

Although many consider fixed implant therapy best treatment for edentulous patients, this treatment may not fit all patients' needs, desires or budget. Implant overdentures provide considerable benefits over conventional dentures if fixed options are out of reach due to systemic, local and patient factors.

Modern site-specific dental implant designs and more conservative surgical and restorative techniques have increased predictability of such treatment. This presentation demonstrates evidence-based techniques with clinical cases from private practice showing start-to-finish dental implant surgery and restoration.

Nicholas Egbert, DDS, MDS, FACP received his dental degree from Creighton University in Omaha, Nebraska in 2008 and his MDS, Advanced Prosthodontics Certificate and American College of Prosthodontics Board Certification from University of Tennessee in 2011. He is a member of the American Academy of Esthetic Dentistry, American Board of Prosthodontics, American College of Prosthodontics, American Dental Association, American Dental Society of Anesthesiology, Academy of Osseointegration, and the Utah Dental Association.

Dr Egbert is an accomplished expert and speaker in aesthetic dentistry, dental implant therapy, and CBCT. He maintains a private practice as a surgical prosthodontist at the Reconstructive Dental Specialists of Utah in Salt Lake City. In his spare time, he enjoys skiing and spending time with his family.

**Dr Selwyn Kabrun****Implant assisted vs implant-supported and implant-retained overdentures**

15h15 - 15h45

In this lecture, Dr Kabrun shares his vast experience comparing implant-assisted, implant-supported and implant-retained overdentures. He discusses the biomechanics of a conventional mandibular denture in function and how to correct the function with an implant-assisted overdenture by selecting the ideal position for placement of implants in all 3 mandibular shapes.

He investigates the determination of the need for a third or fourth implant, and why it is necessary sometimes to splint the implants. He then discusses how to choose the appropriate attachment system and shares a few thoughts on the expected long-term maintenance of a mandibular assisted overdenture.

Dr Selwyn Kabrun qualified as a dentist in 1972 at the University of the Witwatersrand. He commenced practice in Johannesburg the same year. The majority of his early practice concerned conventional dentures.

Today, some 50 years later, his main interests are still conventional and implant dentures (both removable and fixed), biomechanics and biology. In 2007 he was made an Honorary Life Member of SASDI (The South African Society for Dental Implants).

07h30 - 08h30 Registration

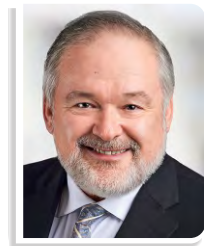
**Graham Blackbeard**

Welcome address by Southern Implants Managing Director

08h30 - 08h50

**Dr Petros Yuvanoglu**

Session Chair

**Dr Izchak Barzilay**

35 years of career-spanning experience solving implant complications

08h50 - 09h30



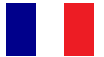
Implant dentistry has given the practitioner many options for restoring patients back to function. With any mechanical system that is expected to work in a biological setting, there are many complications that can arise. With implant systems lasting a very long time, one must be prepared to service the restorations and the implant fixtures as they age.

Over the past 35+ years many complications (mechanical and biological) have been encountered on even the best of systems and manufacturers have continually improved their systems to ensure fewer issues arise. This presentation will present complications and the troubleshooting methods that have been developed over the years to attend to these issues.

Dr. Izchak Barzilay DDS, Cert. Prosth., MS, FRCD(C) received his DDS from the University of Toronto in 1983, a Certificate in Prosthodontics from the Eastman Dental Center in Rochester, NY in 1986, and a MS from the University of Rochester in 1991. He is currently CEO of the BuildYour Smile Dental Foundation.

His career highlights include Past President of the American Prosthodontic Society; Head of the Division of Prosthodontics and Restorative Dentistry at Mt Sinai Hospital, Toronto; Adjunct Assistant Professor of Dentistry at the School of Medicine and Dentistry, University of Rochester; Professor at the George Brown College of Applied Arts and Technology; Associate in Dentistry at University of Toronto; Vice Chair of the Board of Directors for the Royal College of Dentists of Canada; Past President of the Association of Prosthodontists of Canada; Past President of the Ontario Study Club for Osseointegration; member of the Advisory Board for the International Society for Digital Dentistry.

He is a reviewer for the Journal of Esthetic and Restorative Dentistry, and is in private practice limited to prosthodontics and implant dentistry in Toronto. He has published extensively and has been awarded the Tylman Award (American Academy of Crown and Bridge Prosthodontics), Prosthodontics Research Award (International Association for Dental Research), Buonocore Award (American Association for Dental Research Rochester Chapter), the Essay Award (American College of Prosthodontics), the International Journal of Oral and Maxillofacial Implants Best Paper in 1996, the AB Hord Master Teacher Award (University of Toronto) and the Division of Prosthodontics 2007 Alumni Award (University of Rochester Eastman Dental Center). He holds fellowships in the Academy of Prosthodontics, Academy of Osseointegration, Royal College of Dental Surgeons of Canada, Pierre Fauchard Academy, Academy of Dentistry International and the International College of Dentists.

**Dr Philippe Khayat****Prevention and treatment of peri-implantitis: efficient strategies**

09h30 - 10h00

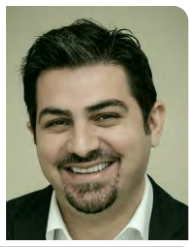
Peri-implantitis is a puzzling and frustrating pathology. Sadly, it has become more and more frequent. Rough implant surfaces may be a risk factor. The debate is active between proponents of machined (smoother) surfaces and moderately rough surfaces. This lecture will explore this controversy both from a scientific and clinical perspective. The need for a hybrid implant design will be discussed.

When peri-implantitis is present, it is not easy to determine the most efficient treatment strategy. All approaches include a surface decontamination protocol but one treatment modality goes one step further. Implantoplasty, defined as the mechanical modification of the exposed implant surface (removal of all exposed macro and microstructures), creates a radical change of environment. This lecture will show how this treatment modality can prevent further bone loss and promote significant bone repair without the use of traditional regenerative techniques (graft material and/or membrane).

Dr Khayat (DCD, MSD) received his dental degree from the University of Paris in 1979. In 1986, he graduated from the University of Washington where he received his Certificate in Perio-Prosthodontics and his Master of Science in Dentistry (MSD).

He is Affiliate Assistant Professor at the University of Washington, Department of Restorative Dentistry and has been the President of several French organizations including the Société Française de Dentisterie Esthétique. He is Past-President of the American Dental Club of Paris, a 125-year-old association. He has published articles in several French and international journals including the Journal of Prosthetic Dentistry, Practical Periodontics and Aesthetic Dentistry, the International Journal of Oral and Maxillofacial Implants, Clinical Implant Dentistry and Related Research and the Journal of Oral Implantology.

Dr Khayat currently maintains a private practice limited to Oral Implantology in Paris, France.

**Dr Mehdi Valizadeh****Debunking common myths about treating posterior jaws**

10h00 - 10h20

Maxillary sinus floor elevation with the lateral approach has been utilised as the regenerative technique of choice for decades in the posterior maxillae with deficiencies in vertical dimensions. However, sinus pathologies, intra- and post-operative complications along with patient acceptance can be limiting factors despite the technique being predictable.

This lecture will have a clinical, evidence-based focus on predicting factors on sinus floor elevation with lateral approach and will try to propose novel techniques for the purpose of implant placement in the posterior maxilla avoiding the need for major regenerative modalities including SFE with lateral approach.

Dr Valizadeh (DDS, ADC Cert, MSD) is a board-certified periodontist with a full-time private practice, based in Perth, Australia. He also holds a position as Senior Clinical Lecturer at the Department of Periodontics, School of Dentistry, University of Western Australia, as clinical supervisor for post-graduate periodontics and the oral implantology program.

He is a former assistant professor in the Department of Periodontics, School of Dentistry SBMU (International Branch), Tehran, Iran. He is also an author and contributor to several books in his home country. Mehdi, over the last ten years, has been extensively involved in running educational courses in the field of periodontology and oral implantology. He lectures extensively both nationally and internationally.

**Dr Stephen Chu****Dr Stephanie Chu**

**The INVERTA® implant system: past, present, and future strategies**

10h20 - 11h00

Since the inception of the inverted body-shift concept and Inverta implant system by Southern Implants, Pty. in 2016, much has evolved in the past six years.

This presentation will give an overview of past clinical (Ostman 2018) and preclinical (Nevins 2019) publications, current multicentered data from the Inverta registry, clinical indications and contraindications of use, and future design updates and applications. In addition, new prosthetic components to allow and facilitate subgingival emergence profile capture in immediate provisional restoration will be demonstrated.

Dr. Stephen Chu, DMD, MSD, CDT, received his doctoral degree from the University of Pennsylvania School of Dental Medicine and his master's degree in restorative dentistry and certificate in post-graduate Fixed Prosthodontics from the University of Washington School of Dentistry. He subsequently obtained his dental technician certification in dental ceramics and ASMDT status at New York University College of Dentistry. Dr. Chu is a Clinical Associate Professor in the Ashman Department of Periodontology and Implant Dentistry at New York University College of Dentistry. Dr. Chu maintains a private practice limited to fixed prosthodontics, aesthetic, and implant dentistry in New York City.

Dr Stephanie Chu (DMD) was born in New York and raised in New Jersey. She attended New York University, where she received Bachelor's degrees in music and pre-health sciences. Afterwards, she received her dental degree from the University of Pennsylvania School of Dental Medicine. She then completed a General Practice Residency at the Manhattan Veterans Affairs Hospital, which was followed by three years of Postgraduate Periodontics and Implantology education at the joint program between New York University and the Manhattan Veterans Affairs Hospital, where she also served as chief resident. She is board-certified in Periodontology and Dental Implant Surgery and is an active member in the American Academy of Periodontology. She currently maintains a private practice in Manhattan and is an adjunct clinical professor at the Manhattan VA Hospital Postgraduate Periodontics Department.

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11h00 - 11h20    **Tea Break**

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**Dr Noland Naidoo***Session Chair***Dr Anton Dank***Machined surfaces revisited*

11h20 - 11h40

The first endosseous dental implant placed in the sixties feature a fully machined implant surface. Since that time, the dental implant industry has been continuously striving for the ideal surface roughness to promote osseointegration. Literature has shown that rougher surfaces show higher initial survival rates; on the other hand, a disadvantage is that rougher surfaces also facilitates bacterial and plaque adhesion, and may have implications for corrosion behaviour in vivo.

Furthermore, long-term clinical literature is naturally limited to implant surfaces that have been in use for a sufficient length of time, and information is scarce on the more novel surfaces introduced in recent years.

In this lecture, the speaker discusses his ongoing research at ACTA in the Netherlands addressing these unanswered questions.



Dr Anton Dank DMD graduated in dentistry at Radboud University Nijmegen in 2007. He successfully completed the ACTA 3-year postgraduate training program in Oral Implantology and Prosthetic Dentistry in 2017, and is currently completing his PhD at VU Amsterdam, focusing on the clinical impact and corrosion implications of different contemporary implant surfaces.

**Prof Dr Stefan Vandeweghe****Dr Manú van Weehaeghe****Will my implant last?**

11h40 - 12h10

Since the first reports on osseointegration and dental implants by PI Brånemark, dental implants underwent numerous changes in geometry, surface and connection. Also, surgical protocols evolved, putting the focus on immediate implant placement and loading. How will these changes affect the outcome of our implant in the long-term?

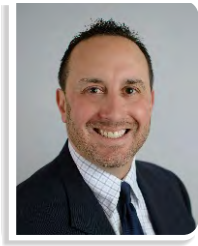
In this presentation, we will discuss the long-term outcome of Southern Implants, thereby identifying the potential risk factors for a good prognosis.

Prof Dr Stefan Vandeweghe graduated as a dentist at Ghent University, Belgium. He completed his postgraduate training in oral implantology and finished his PhD in 2010, publishing seminal research on the then-new Southern Implants ultra-wide MAX implant. He then worked as a post-doctoral researcher at the University of Malmö in Sweden.

Currently, he is Head of the Department of Reconstructive Dentistry at Ghent University and owns a private practice in Ghent, Belgium. He is a prolific author and co-author of numerous scientific publications and lectures internationally.

Dr Manú Van Weehaeghe graduated in dentistry from the University of Ghent, Belgium in 2015. His internship was split between a part-time post as General Dentist – Prosthetician in private practice in Zwijnaarde, and residency at the University Hospital in Ghent under the supervision of Prof Dr Stefan Vandeweghe. He is currently completing his PhD in the Reconstructive Dentistry Department of UZ Ghent.

He is supervisor in the Masters of Dentistry programme for Clinical Skills in the Crown and Bridge area. He works on a broad range of treatments such as singular indirect restorations on natural elements and implants, both in-house and in collaboration with a lab, aesthetic and functional oral rehabilitations with direct composites as well as full jaw treatments with or without implants.

**Dr Barry Levin****The Dermal Apron Technique® as an alternative in thin biotypes**

12h10 - 12h50

Immediately replacing maxillary anterior teeth requires recognition of the patient's natural tissue topography. Patients with thin, friable periodontal phenotypes are considered "high-risk" for future recession, physiologic and esthetic complications. Immediate tooth replacement therapy for these patients requires proper implant selection, adjunctive augmentation and well-contoured provisional restorations.

Synergy between implants with a subcrestal angle correction (SAC) and the Dermal Apron Technique® has been scientifically documented. Incorporating a dual-zone bone graft with a dermal allograft for guided bone regeneration and soft tissue grafting functions results in maintenance of facial bone and robust soft tissue dimensions for long-term esthetic stability.

This presentation will demonstrate the use of, and supporting data for, SAC and Inverta implants combined with the Dermal Apron Technique in challenging clinical examples.

Dr. Levin (DMD, PC) earned his DMD from Temple University School of Dental Medicine in 1994 and received his certificate in Periodontology from the University of Maryland in 1996. He is a Diplomate of the American Board of Periodontology and is a Clinical Associate Professor at the University of Pennsylvania, where he has earned several teaching awards. He also maintains a private practice limited to periodontology and dental implant therapy. He has authored or co-authored over 20 articles in refereed journals and has presented his clinical research and techniques nationally and internationally at numerous periodontal and implant congresses.

**Dr Stavros Eleftheriou****Bone regeneration using a novel design of titanium mesh membrane**

12h50 - 13h20

Titanium mesh has been used in bone regeneration techniques for many years as a scaffold in order to achieve optimal healing of the different biomaterials used. In the last several years, we have seen titanium mesh designs that can be attached directly onto implants in cases where there is some native bone for secure implant placement, and used as a scaffold for the biomaterials.

Southern Implants and the presenter are currently working on a new titanium mesh design that can be attached onto implants via a specially designed abutment in an attempt to overcome some of the shortcomings of the existing systems and simplify the surgical technique, taking into consideration the biological concepts of bone regeneration in a quest to achieve optimal results.

Dr Eleftheriou is a specialist in oral surgery in the UK and a specialist in maxillofacial and oral surgery in Cyprus. After his graduation from the Aristotle University of Thessaloniki, Greece, he continued his surgical training in Israel (Department of Oral and Maxillofacial Surgery, Rambam Healthcare Campus, Haifa). Following the completion of his surgical training he travelled to Europe and North America for further refinement of his surgical techniques in oral and maxillofacial surgery, facial plastic surgery and implantology. In 2003, he established his practice in Cyprus, offering oral and maxillofacial surgery, facial cosmetic surgery and implantology.

Started in 2015, his UK practice focuses on advanced implantology and reconstructive oral surgery. His main areas of expertise are alveolar bone reconstruction and regeneration, the treatment of atrophic maxilla with implants, full arch immediate loading restorations and implants in the aesthetic zone. Dr Eleftheriou mentors, lectures, and gives training and serves as an instructor and key opinion leader for several implant, surgical instrument and biomaterial companies.

13h20 - 14h20 **Lunch**

KOI Restaurant

Academic Lectures

Monday, 21 March

**Prof Hugo De Bruyn**

Session Chair

**Dr Howard Gluckman**

Partial extraction therapy using INVERTA®

14h20 - 15h00



Dr Gluckman graduated in dentistry from the University of Witwatersrand in 1990, specialised in Oral Medicine and Periodontics cum laude at the University of Stellenbosch, and completed his PhD on the topic of the submerged root technique for partial extraction therapy, summa cum laude, at the University of Szeged in Hungary.

He was instrumental in the development of the University of Stellenbosch and the University of the Western Cape's postgraduate Implantology Diploma, and is currently Adjunct Assistant Professor in the Department of Periodontics at the University of Pennsylvania.

In addition to his private practice in Cape Town, Dr Gluckman co-founded the internationally renowned Implant and Aesthetic Academy (IAA) 15 years ago, where he serves as director and lecturer. The IAA is the only private postgraduate training facility of its kind and its accreditation is recognised by the Stoneybrook University and the Dentalxp.

In 2015 Dr Gluckman published the novel technique of autogenous bone augmentation using bone harvested from the palate, and in 2016, he proposed the pontic shield technique for partial extraction therapy.

He has served on the editorial and scientific boards of several peer-reviewed journals and has prolifically published in journals and textbooks.

**Dr Rolf Bettens**

A novel surgical approach to pterygoid implant placement

15h00 - 15h30

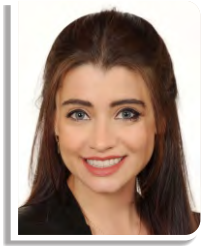


Pterygoid implant placement has the potential to provide us with additional fixtures in the posterior maxilla, eliminating distal cantilevers completely. However, traditional techniques are plagued by several disadvantages, such as a steep learning curve, lack of clear guidelines and standardization, suboptimal surgical and prosthodontic access and position.

Dr Rolf Bettens achieved his MD at the University of Antwerp and DDS at Ghent University, following which he qualified in oral surgery at St John's GH in Bruges and maxillofacial surgery again at Ghent University. He is a travelling fellow of the European Academy of Facial Plastic Surgery and a board-certified member of the American Academy of Facial Plastic and Reconstructive Surgery in Washington DC.

He was formerly on staff in the Department of Plastic and Maxillofacial Surgery at Heilig-Hart Hospital Roeselare, and currently serves on the staff of the Department of Oral and Maxillofacial Surgery at Delta GH, Roeselare.



**Dr Andriana Nicolopoulos****Dr Costa Nicolopoulos****Management of failed implant cases**

15h30 - 16h15



Over time the percentage of dental implant failures increases and clinicians will inevitably need to dedicate more time to dealing with biological and technical complications. The most common clinical presentation of "ailing and failing" implants is peri-implantitis, an inflammatory disease of bacterial origin accompanied by excessive bone loss. The reported prevalence of peri-implantitis varies between studies from 6-36%.

The clinician's judgement on whether to treat or explant a failing implant needs to be based both on clinical and radiographic evaluation. If a non-mobile infected implant is deemed hopeless and needs to be explanted, it may be possible to do so without resorting to the traditional destructive "trephine" technique; in fact, implant removal devices are now available that facilitate predictable removal of failed implants, conservative implant extraction while preserving the maximum volumes of the viable soft and hard tissue.

In this lecture, the presenters will share their experience with explantation, including how to decrease the bacterial load, maintain the regenerative capacity of the surrounding alveolar walls, and achieve optimal primary stability for a replacement implant to be immediately loaded.

Dr Andriana Nicolopoulos is double-qualified in both medicine and dentistry, having graduated MD in 2016 and DMD in 2019 from the University of Semmelweis in Budapest, Hungary. She is currently a second year maxillofacial surgery resident in Athens, Greece, and is presently also completing her MSc in metabolic bone diseases at the University of Athens.

Dr Costa Nicolopoulos qualified as a dentist in 1984 receiving his dental degree "cum laude" from Wits University, Johannesburg, South Africa. He received numerous awards including the Gold Medal of the Dental Association of South Africa for the most outstanding graduate. In 1990 he completed his 4-year full time postgraduate Maxillo-Facial & Oral Surgery training at Wits University and was awarded FFD (SA) MFOS from the College of Medicine of South Africa.

Since 1991 he is in full time specialist Maxillo-Facial & Oral Surgery private practice concentrating on immediate loading of dental implants. To date he has placed over 40.000 dental implants.

In 2011, with Dr Petros Yuvanoglu, he established the SameDay Dental Implants Clinic in Dubai where he is also the co-director of the Branemark Osseointegration Center as well as the ZAGA Zygoma Implant Center-Dubai.

Costa has been an invited speaker at numerous organizations, including the American Association of Oral and Maxillofacial Surgeons (AAOMS), Academy of Osseointegration (AO), American Academy of Esthetic Dentistry (AAED), Osseodensification Academy, Association of Dental Implantology (ADI), HAOMS, AEEDC and is a Diplomate of the International Congress of Oral Implantology (ICOI).

**Dr Petros Yuvanoglu****Abutment materials and decision factors in selecting the right abutments**

16h15 - 16h45

Abutment selection is one of the most important parameters for successful dental implant treatment. The choice of the "right" abutment, both in shape and material, will affect the treatment outcome at a biological, biomechanical and aesthetic level.

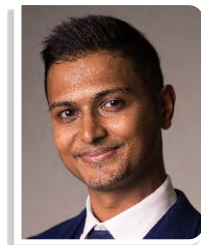
The aim of this lecture is to shed light on the thought process of selecting the ideal abutment or combination of abutments, indicated for different implant treatment scenarios based on the 25-year personal experience of the lecturer and the scientific literature.



Dr Petros Yuvanoglu (DMD) qualified as a dentist in 1995, receiving his dental degree summa cum laude from Semmelweis University in Budapest. In 1998 he completed his 3-year full time post-graduate specialist prosthodontist training at Tufts University, Boston, and was awarded his Certificate in the Dental Specialty of Prosthodontics. Currently he holds an appointment as adjunct faculty in the Department of Postgraduate Prosthodontics at Tufts.

Since 1999 he has been in full time private practice as a specialist prosthodontist focusing on the prosthodontic rehabilitation of teeth and dental implants. He is a renowned speaker, and has been invited to lecture nationally and internationally by numerous prestigious organizations, including the American Academy of Esthetic Dentistry (AAED), the American Association of Oral and Maxillofacial Surgeons (AAOMS) and the Pikos Institute.

In 2011, together with Dr. Costa Nikolopoulos, he established the SameDay Dental Implants clinic in Dubai, which has been awarded the title of Brånemark Osseointegration Centre of Dubai and the ZAGA-Zygoma Implant Centre of Dubai.

**Dr Avish Jagathpal****Full arch implant impressions**

16h45 - 17h05

This lecture will discuss the recommended techniques used in the acquisition of full arch implant impressions and the rationale behind the respective techniques to achieve more predictable outcomes. It will help the practitioner to plan and stage treatment better, by comparing accuracy of analogue and digital modes of impression taking and the pitfalls of each type.

Further highlighting the current findings from the literature to improve accuracy of full arch digital impressions.



Dr Avish Jagathpal is a prosthodontist, in private practice in Pretoria, and is a teacher in both undergraduate and postgraduate prosthodontic programs at the University of Pretoria. He graduated as a general dentist from the University of the Witwatersrand in 2005, having taken the best student in removable prosthetics award, the best student in fixed prosthodontics award, the SADA award for the best final year student in operative dentistry, the Fred Hossack prize for the best case in clinical prosthodontics, and was admitted to The Golden Key International Honour Society in recognition of outstanding scholastic achievement and excellence.

He was in general practice in Durban from 2008 - 2013. In December 2013, Dr Jagathpal completed a Post-Graduate Diploma in Interceptive Orthodontics at the University of the Western Cape and went on to graduate as a Prosthodontist cum laude from the University of Pretoria in 2017.

He has presented at the University of Pretoria Faculty Day 2015, the Academy of Prosthodontics (South Africa) in November 2014 and November 2015, The ITI World Symposium 2017 (Switzerland), the International College of Prosthodontics Biannual Meeting 2017 (Chile), the Southern Implants International Forum in Hermanus (2018), has lectured at several national and international ITI study club meetings, and the International College of Prosthodontics Biannual Meeting 2019 in Amsterdam.

He is a co-director of the Midrand/Centurion ITI Study club, is a trainer for the Young ITI team, sits on the Executive Committee for the Prosthodontics Academy of South Africa, is an ITI fellow and serves as Communications Officer for the ITI section Southern Africa.

**Dr Michael Michael**

Session Chair

**Dr Guy McLellan**

Using modern zygomatic implants to tailor treatments for individual cases

08h00 - 08h40



Over recent years the popularity and demand for zygomatic implants has increased for the atrophic patient. They provide the possibility to reduce the complexity of surgery and allow for immediate loading, thus dramatically reducing the treatment time and offering an alternative to advanced bone grafting.

Aparicio published the Zygoma Anatomy-Guided Approach (ZAGA), which helps guide the selection of treatment technique. This presentation will describe, with clinical examples, the use of site-specific implants (Southern Implants, Straumann ZAGA flat and ZAGA round) for the different anatomical classifications.

Extramaxillary zygomatic implant placement presents the surgeon with a different set of potential complications. These will be discussed, and a novel soft tissue flap as an adjunct, will be presented, to eliminate the risk of buccal soft tissue retraction.

Dr McLellan (BDS FDS RCS (Eng) MBBS) is a double-qualified surgeon in dentistry and medicine and a Fellow of the Royal College of Surgeons of England. He currently holds an Honorary Consultant post in Oral Implantology at Charing Cross Hospital where he runs the dental implant clinic, and continues to work as a member of the Craniofacial team at Chelsea and Westminster Hospital.

His interest in dental implantology began in 1994 when he first worked on complex reconstructive surgery for patients with cleft lip and palate, facial cancer and other intra-oral conditions. His extensive experience in this area has established his reputation as a world-leading surgical implantologist.

His private practice is focused on surgical implantology and advanced augmentation procedures, including complex intra-oral and extra-oral grafting.

**Dr Rudi Mukherjee****Pterygoid implants: an undeniable weapon against the atrophic maxilla**

08h40 - 09h10

Having treated over 1200 immediately loaded full-arch cases, Dr Mukherjee will share how the routine use of pterygoid implants has made treatment of the maxilla predictable and efficient. This lecture will reveal statistical analysis on patient demographics for full-arch rehabilitation and its relevance to treatment modalities, and discuss how pterygoid implants make complex rehabilitations possible using conventional implantology with less requirement for complex grafting procedures or zygomatic implants.

Dr Mukherjee will share his recommendations on case assessment and planning, surgical anatomy, implant design evolution and rationale, clinical technique, risks and complications.

Dr Mukherjee BDS PGCertEd (UK) qualified from Kings College London in 2008, and on completion of VT training in 2009 started his training in dental implantology at the Tatum Institute in Birmingham. He has since completed numerous training courses related to dental and implant rehabilitation across the UK, Europe and USA.

After spending several years in private practice, Dr Mukherjee joined EvoDental in 2016 as Clinical Lead for the London Clinic to focus solely on full-arch implant rehabilitation before becoming Clinical Director of the whole group in 2020. He has lectured nationally and internationally on subjects related to full-arch implantology including pterygoid implants and digital workflows.

**Dr Costa Nicolopoulos****Why external connections outperform internal connections**

09h10 - 09h30

Although statistically there is no significant difference in success and complication rates between internal and external implant connections, there is a definite advantage to using the external hex to achieve immediate function and an accelerated treatment protocol.

This lecture will consider and compare the practical benefits of connection systems, including mechanical, macro- and micro-geometric, surgical and prosthetic characteristics unique to each.

Dr Costa Nicolopoulos qualified as a dentist in 1984 receiving his dental degree "cum laude" from Wits University, Johannesburg, South Africa. He received numerous awards including the Gold Medal of the Dental Association of South Africa for the most outstanding graduate. In 1990 he completed his 4-year full time postgraduate Maxillo-Facial & Oral Surgery training at Wits University and was awarded FFD (SA) MFOS from the College of Medicine of South Africa.

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Costa has been an invited speaker at numerous organizations, including the American Association of Oral and Maxillofacial Surgeons (AAOMS), Academy of Osseointegration (AO), American Academy of Esthetic Dentistry (AAED), Osseodensification Academy, Association of Dental Implantology (ADI), HAOMS, AEEDC and is a Diplomat of the International Congress of Oral Implantology (ICOI).

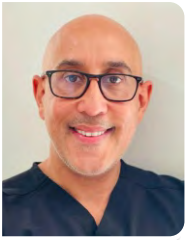
**Dr Karmisha Naidu**

To 3D print frameworks or not? Passivity of fit and cost compared to cast frameworks

09h30 - 09h50

Dr Karmisha Naidu is currently a registrar in the Department of Prosthodontics, at the School of Oral Health Sciences at the University of Pretoria. She earned her BChD in 2006 from the University of the Western Cape. She returned to Durban in 2007 to complete her community service following which she was employed as a full-time dentist in Kwa-Zulu Natal Department of Health Services. During this time, she obtained her Postgraduate Diploma in Clinical Management of HIV/AIDS from the Nelson Mandela School of Medicine at the University of Kwa-Zulu Natal in 2011.

She went on to complete a Postgraduate Diploma in Interceptive Orthodontics at the University of the Western Cape in 2015. In 2018 she obtained her Master of Science in Dentistry from the University of Witwatersrand.

**Dr Riz Syed**

Zygomatic implants: the legacy, new developments and applications in treating the atrophic maxilla

09h50 - 10h40

The lecture will give a brief history of the use of zygomatic implants in oncology and trauma, and how the need for a prosthetically driven solution helped modify and change the design with the development of the 55 degree angled implant head implant, modified surfaces and ZYGAN and ZYGEX models.

It will also consider the clinical indications and use of zygomatic implants in modern implant dentistry for restoration of the extremely resorbed maxilla, such as quad zygomatic cases or in conjunction with other site-specific implants.

Hard and soft tissue modifications are further enhancing zygomatic implant surgery to "future-proof" our patients. The lecture will conclude with a discussion of the design modifications that are currently being tested.

Dr Riz Syed qualified in 1999 at the Royal London Hospital and has worked extensively in the Oral & Maxillofacial surgical department and numerous specialist surgical practices. He completed extensive postgraduate studies in both implant and restorative dentistry, and has trained in America, Europe, Brazil and South Africa in advanced soft and hard tissue management and oral plastic surgery. He has also trained at the Royal College of Surgeons.

He is a visiting surgeon and regular consultant to numerous surgeries across the UK. After more than 17 years of providing full arch treatment, Dr Syed has established himself as one of the UK's leading surgeons in same-day teeth (all-on-X), Southern Implants zygomatic and Nazalus protocols. His practice includes sinus grafting and hard and soft tissue grafting. He lectures both nationally and internationally and continues to give training to hundreds of implant surgeons across the UK.

10h40 - 11h10    **Tea Break**



**Dr Barry Levin**

Session Chair

**Dr Gary Morris****Dr Mark Steinberg**

Measuring the positive impact of site-specific implants on practice efficiency and patient outcomes

11h10 - 11h50

Site-specific implant therapy provides clinicians a choice of a well-designed products for individual clinical applications. Special implants have been developed to provide improved primary stability, avoid pre-implant bone grafting procedures, and lead to improved soft and hard tissue preservation around implants.

In 2015, the speakers travelled to South Africa and were introduced to the Southern Implants site-specific product line, which they incorporated into their practices.

In this lecture they will demonstrate the quantifiable benefits of adding site-specific implants to treatment plans, using practice and case data to show measurable effects of streamlined workflows and enhanced outcomes.

Dr Gary Morris DDS completed his undergraduate studies at Indiana University in Bloomington. He received his dental degree from the University of Illinois at Chicago and completed his residency in prosthodontics at the UMKC College of Dentistry in Kansas City Missouri. He is an Adjunct Clinical Assistant Professor at Southern Illinois University, School of Dental Medicine. Prior to this appointment, he was a Clinical Assistant Professor at the University of Illinois, College of Dentistry. He is a member of the ACP, AO, ADA, ISDS, CDS and the CADR.

Dr Morris is the past president of the Illinois section of the ACP, has lectured both nationally and internationally, and has authored or co-authored numerous articles and book chapters related to dental implant therapy. He maintains a private practice limited to prosthodontics and restorative dentistry in Buffalo Grove, Illinois.

Dr Mark J. Steinberg (DDS, MD, FACS) received his DDS degree from Northwestern University School of Dentistry, and later earned an MD degree from Hahnemann University School of Medicine in Philadelphia. He is Board Certified by the American Board of Oral & Maxillofacial Surgery. He is a fellow of the American Association of Oral & Maxillofacial Surgeons and the American College of Surgeons. Dr. Steinberg has written articles and text book chapters in the Oral & Maxillofacial Surgery literature. He has lectured both nationally and internationally on topics in Oral & Maxillofacial Surgery.

Prior to entering private practice in 2007 Dr. Steinberg was a full professor of surgery at the Loyola Stritch School of Medicine. He was also the chief of the division of Oral & Maxillofacial Surgery and the program director of the Oral & Maxillofacial Surgery residency program at Loyola University Medical Center.

Presently, he maintains an academic appointment as a clinical professor of surgery and teaches at Loyola University Medical Center. He also maintains a private practice with offices in Northbrook and Lake Forest, Illinois.

**Dr Nic Egbert****Optimising quality, efficiency and economics in private practice implant dentistry**

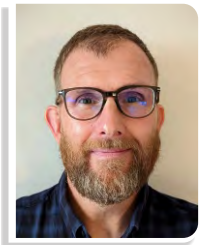
11h50 - 12h10

Providing "smart" treatment options to dental implant patients can lead to measurable private practice benefits. A smart treatment option is one that improves the time and cost of the procedure while also allowing the clinician an expanded scope of alternatives to address the patient's specific needs. Optimising case acceptance and minimising complications is critical to a successful practice, especially in a time of economic uncertainty.

Accelerated and more predictable implant therapy can increase patient volume, enhance practice efficiency, and minimise future reinterventions. Advances in implant system designs, together with proper associated advanced treatment protocols, have been introduced that have led to evidence-based clinical and economic benefits.

Nicholas Egbert, DDS, MDS, FACP received his dental degree from Creighton University in Omaha, Nebraska in 2008 and his MDS, Advanced Prosthodontics Certificate and American College of Prosthodontics Board Certification from University of Tennessee in 2011. He is a member of the American Academy of Esthetic Dentistry, American Board of Prosthodontics, American College of Prosthodontics, American Dental Association, American Dental Society of Anesthesiology, Academy of Osseointegration, and the Utah Dental Association.

Dr Egbert is an accomplished expert and speaker in aesthetic dentistry, dental implant therapy, and CBCT. He maintains a private practice as a surgical prosthodontist at the Reconstructive Dental Specialists of Utah in Salt Lake City. In his spare time, he enjoys skiing and spending time with his family.

**Dr Dominic O'Hooley****Ensuring patient safety when accelerating treatment**

12h10 - 12h30

Treatment in the aesthetic zone can be complex and trying, using sectional CT scans for planning and positioning virtual implants with palatal coronal emergence to ensure that the screw channel is at positioning through the cingulum, but there is still a possibility that the final crown is going to have a big labial shelf due to the relative mispositioning of the implant. When I was introduced to the CoAxis implant, the central of the ridge became my playground. However, with immediate loading the ideal implant would be narrower with a high insertion torque and primary stability that prevented the labial bony ridge going south.

The Inverta implant was the answer to my wish list. The body shift and more aggressive threads to engage that beautiful, inverted triangle of bone. The narrower coronal portion to allow host bony healing with the all-important endosteum to provide labial plate support. The chance to fill the circumferential jump gap with an alloplast of my choice. Sinergy meets practicality, logic meets reality.

Dr O'Hooley qualified at Liverpool University in 1993 and after working in hospital dentistry, has been committed to private dentistry for over two decades.

Dr O'Hooley is considerably experienced at placing and restoring implants simultaneous with bone grafting, sinus lifting and aesthetically challenging cases. He enjoys pushing boundaries of conventional dental implantology and has been deeply involved in exploring the potential of the Southern Implants Inverta implant paradigm. He lectures nationally and writes extensively in the dental press, most recently focusing on the science of COVID-19 as it relates to dentistry.

INVERTA® Expert Exchange Forum  
13h30 - 17h00

Tuesday, 22 March



### Dr Stephen Chu

Session Chair

13h30 - 13h40



### Dr Nic Egbert

INVERTA® in full arch cases

13h40 - 14h00



Conventional extractions, bone grafting and delayed implant placement and restoration may result in decreased case acceptance, patient satisfaction, increased risk of clinical complications and ultimately sub-optimal functional and esthetic results.

Immediate implant placement and loading is an alternative to such conventional procedures that increases patient acceptance and satisfaction by optimizing outcomes, reducing treatment time and complications more efficiently restoring the patient to adequate oral health. Modern site-specific dental implant designs and more conservative surgical and restorative techniques have increased predictability of such treatment.

This presentation demonstrates evidence-based techniques with clinical cases from private practice showing start-to-finish dental implant surgery and restoration.

Nicholas Egbert, DDS, MDS, FACP received his dental degree from Creighton University in Omaha, Nebraska in 2008 and his MDS, Advanced Prosthodontics Certificate and American College of Prosthodontics Board Certification from University of Tennessee in 2011. He is a member of the American Academy of Esthetic Dentistry, American Board of Prosthodontics, American College of Prosthodontics, American Dental Association, American Dental Society of Anesthesiology, Academy of Osseointegration, and the Utah Dental Association.

Dr Egbert is an accomplished expert and speaker in aesthetic dentistry, dental implant therapy, and CBCT. He maintains a private practice as a surgical prosthodontist at the Reconstructive Dental Specialists of Utah in Salt Lake City. In his spare time, he enjoys skiing and spending time with his family.

**Dr Peter Fairbairn**

True host bone regeneration: a clinical and scientific look at EthOss®, a new-generation synthetic

14h00 - 14h10

Having worked solely with synthetic graft materials for the last 22 years on a daily basis, Dr Fairbairn will show the many clinical protocols and uses for these particulates in true bone regeneration. From the original published concepts to newer ideas such as the use of Cervico and 2.0 PDS sutures, as well as the Southern Implants Co-Axis and other site-specific implants, these ways of improving the host healing will be discussed.

Dr Fairbairn will discuss both animal and human research to understand how these materials upregulate host healing for predictable outcomes when combined with a good understanding of the patient's biology and a careful surgical approach.

Dr Fairbairn (BDS) graduated in dentistry from the University of the Witwatersrand in 1981 and is currently a visiting professor at Detroit Mercy School of Dentistry, MI, USA. He practices in Kensington, West London and first started placing dental implants in 1990.

He is an Honorary Life Member and Past Director of the ADI (UK) as well as Past President of the London Dental Fellowship. He has written several journal articles and peer-reviewed publications on synthetic graft materials and surgery, along with two book chapters.

He has spoken in over 50 countries globally. In 2015 Dr Fairbairn founded EthOss Regeneration, a global bone regeneration brand sold in 62 countries, where he also acts as Clinical Director. EthOss was recently granted The Queens Award, which is the highest award in the UK for innovation.

**Dr Stefano Gracis**

Prosthetic challenges of buccally inclined implants in the aesthetic area

14h10 - 14h40

The possibility to create an aesthetic implant prosthesis depends on the availability of a sufficient volume of hard and soft tissues and on the correct positioning of the implant.

This lecture will analyse the consequences on the appearance of the prosthesis and on soft tissue stability of the 3-dimensional implant placement. Through the description of different clinical cases, the speaker will stress the importance of proper presurgical planning and, in those cases where this was not done, demonstrate the possible solutions and the limits that the prosthodontist faces when fabricating implant restorations in case of compromises in the bucco-lingual position and/or inclination.

Dr Gracis received his DMD degree in 1986 from the University of Pennsylvania, Philadelphia, and in 1987, from the University of Pavia, Italy. In 1990, he obtained the certificate in Prosthodontics with an MSD degree at the University of Washington in Seattle under the guidance of Dr Ralph Yuodelis. He then returned to Milan, Italy, where he has been working ever since in private practice limiting his activity to prosthodontics and restorative dentistry.

He is an active member of the Italian Academy of Prosthetic Dentistry (AIOP) for which he was President in the years 2007-2008 and to the European Academy of Esthetic Dentistry (EAED) for which he was President for the 2017-18 term. He is on the Editorial Board of the International Journal of Esthetic Dentistry and of the International Journal of Prosthodontics. He has contributed several articles and chapters in the field of restorative dentistry and he is a frequent lecturer on topics related to fixed prosthodontics and implant prosthodontics.

He has been involved in the Scientific Committee of several international congresses.

**Dr Noland Naidoo**

INVERTA® in oncology cases

14h40 - 14h50



Site specific implants have been a game-changer in the way we approach and manage our patients. This overflows into head and neck oncologic management as well. A key factor in the way we approach the treatment of these patients is to help them maintain a modicum of quality of life through their oncologic treatment. Often, parts of whole dentitions are sacrificed to prevent severe complications later post-radiotherapy.

Tissue-borne dentures are often eliminated as a treatment option where radiotherapy has been received; therefore, the only real rehabilitation options are implant supported prostheses. The ability to respect biological parameters while providing patients with immediate replacement of these lost/removed dentitions is made possible by the appropriate selection of the tools available.

In this lecture, Dr Naidoo shares how he has adapted the use of the Inverta implant for selected cases in non-prescribed sites to achieve the above.

Dr Noland Naidoo (BChD, PDD) is a prosthodontist in private practice in Sandton, Gauteng. His daily focus deals with the functional rehabilitation of patients with a focus on quality-of-life outcomes. As a member of the Morningside Head and Neck Forum, which is formed by a multitude of specialists and allied health workers who manage head and neck oncology, he and his partners play a pivotal role in the rehabilitation and reintegration of these patients into society.

Dr Naidoo is a member of many local and international associations. He is currently a board member of the International College of Prosthodontists (ICP) and is also an invited faculty member of the Future Leaders in Prosthodontics (FLiP). In addition to these he is a member of The International Society for Maxillofacial Reconstruction (ISMR), the International Team of Implantologists (ITI), the Academy of Prosthodontists South Africa (APSA) and the South African Dental Association (SADA).

**Dr Dominic O'Hooley**

INVERTA® in premolars

14h50 - 15h00



The body shift seemed ideally suited to the immediate replacement of premolars. Upper premolars are in the aesthetic zone by proxy! The same high stability for immediate loading with the opportunity to allow endosteal bone growth in that vital buccal corridor can be achieved. There is adequate space mesio-distally too, with the flexibility of using either a straight or CoAxis® connection for the screw channel between the cusps dependent on the ridge shape.

I hope you enjoy my presentations from the coal face of real-world dentistry over in Yorkshire, the jewel in the crown of England.

Dr O'Hooley qualified at Liverpool University in 1993 and after working in hospital dentistry, has been committed to private dentistry for over two decades.

Dr O'Hooley is considerably experienced at placing and restoring implants simultaneous with bone grafting, sinus lifting and aesthetically challenging cases. He enjoys pushing boundaries of conventional dental implantology and has been deeply involved in exploring the potential of the Southern Implants Inverta implant paradigm. He lectures nationally and writes extensively in the dental press, most recently focusing on the science of COVID-19 as it relates to dentistry.



**Prof Pär-Olov Östman**

Follow-up of first ever INVERTA® implants

15h00 - 15h10

Dr Pär-Olov Östman (DDS, PhD, MD) received his dental degree from the University of Umeå, Sweden. He holds a PhD from Dep. of Biomaterials, Institute for Surgical Sciences, Sahlgrenska Academy, Göteborg University, Göteborg, Sweden. At present he is a visiting Professor at Dep. Periodontology and Oral Implantology, Dental School University Hospital, Faculty of Medicine and Health Sciences University of Ghent, Belgium, Visiting Professor Dental School University Hospital, James Cook University, Townsville, Australia and run a private practice in Falun, Sweden. He has authored several scientific articles both in oral pathology and implantology. He has lectured extensively in implant dentistry during the last 20 years. Currently he is also consultant for Southern Implants, South Africa and Zest Dental Solutions, USA.

**Dr Hanae Saito**

Bringing "big data" to dentistry: the INVERTA® Registry Project

15h10 - 15h20

The INVERTA® Data Registry Project was conceived as a repository for clinical data and images related to patients treated with the Inverta implant design. The registry's primary goal is to proactively and perpetually monitor the safety and efficacy of the Inverta implant by creating a platform for selected treating clinicians from all over the world to record clinical data in real-time. This data is continually being used for post-market surveillance, prospective, and retrospective research, and has also been used to guide engineering and protocol development decisions.

During this presentation Dr Saito, the registry's lead clinical researcher, shares insights obtained from statistical analysis of the database including insights on clinical outcomes and performance of the implant in both immediate tooth replacement therapy and other clinical scenarios.

Dr Hanae Saito (DDS, MS, CCRC) is a clinical associate professor and director of predoctoral periodontal education and periodontal clerkship at the Division of Periodontics, Department of Advanced Sciences & Therapeutics, University of Maryland. She received her Master of Science in Clinical Research and certificate in Periodontics from New York University College of Dentistry. She was recipient of the 2014 American Academy of Periodontology Foundation Nevins Education and Clinical Research Fellowship award, 2018 Osseointegration Foundation Research Grant and 2018 Implant Dentistry Research and Education Foundation. She is a Diplomate of American Board of Periodontology and maintains Faculty Practice. Her most recent research topics include the effects of provisional restoration and its materials on peri-implant soft tissue attachment and peri-implantitis.

**Prof Dr Véronique Christiaens****Dr Marco Tudts**

**INVERTA® - a reverse tapered body shift implant for fully guided immediate placement**  
15h20 - 15h50

Immediate implant placement holds considerable value, yet primary stability is often a preventive factor. Achieving adequate primary stability during immediate placement is often challenging given the limited engagement of bone at the apical end. The Inverta, a reverse tapered body shift implant might be a suitable solution.

The first part of the lecture will focus on the importance of stability, volumetric viability, and buccal gap size. This will be followed by a comparison of the stability at varying bone support levels.

The second part of the lecture is clinically orientated, including multiple cases as well as the description of its implantation using a fully guided procedure.

Dr Marco Tudts graduated as a dentist at the KU Leuven in 1991. He then followed a postgraduate course at the same university in aesthetic and prosthetic dentistry, which he successfully obtained in 1994. For 12 years he worked part-time at the KU Leuven as a consultant in aesthetic-prosthetic dentistry with special research topics in complex rehabilitation.

From 1996 to present he runs a multidisciplinary private practice, Cosmident, with a focus on complex rehabilitations of heavily mutilated dental situations. From 2000-2004 he followed an intensive international program at NY Montefiore Medical Center, which led to a Master of Science in Dentistry Implantology.

In 2008 he opened a Look over Shoulder Training Facility for dentists with specific interest in implantology, 3D technology, CAD/CAM and 3D guided surgery. He is the founder of the BIOMET 3D Guided Navigator® system (2008), and is a key opinion leader for Ivoclar, Southern Implants, Straumann, as well as a Dentsply Sirona CEREC Certified trainer.

Prof Dr Véronique Christiaens obtained her degree in dentistry from Ghent University in 2012. She specialised in Periodontology & Oral Implantology at the same university for the following 3 years whilst completing her PhD. In 2017 she defended her PhD entitled "Diagnostic tools in Periodontology and Oral Implantology Revisited."

Currently she teaches periodontology, oral implantology and multidisciplinary treatment planning at undergraduate and postgraduate level.

As a board member of the Belgian Association of Periodontology and member of the European Association of Osseointegration, the European Federation of Periodontology and the Academy of Osseointegration, she follows the latest developments in periodontology and oral implantology closely. Within these domains she is (co)author of several publications in international journals.

**Dr Wynand van der Linden****Dr Peter van der Meulen****INVERTA® implants in the posterior regions**

15h50 - 16h20

Adequate crestal bone width is a major factor in the long-term success of dental implants. Reduced crestal bone width may be due to anatomical form or physiological resorption following tooth loss. The use of narrow-diameter implants has improved outcomes and avoided ancillary procedures. However, possible implant fracture may be a concern, especially in the posterior regions.

Strength and stability of the dental implant in the posterior regions can be enhanced by using the unique design of the Inverta implant. In this lecture, cases illustrating their use will be presented and the prosthodontic challenges of restoring Inverta implants in posterior regions will be discussed, with special attention to managing the prosthetic three-dimensional volume on these narrow-diameter platforms.

Dr Wynand van der Linden (BDS, M Dent (MFOS), FCMFOS (SA)) qualified as a Maxillofacial and Oral Surgeon in 1988, and is in full time private practice in Johannesburg. He was a consultant in the Division of Maxillofacial and Oral Surgery, Department of Surgery, University of Witwatersrand until 2017. He is a Past President of the South African Society of Maxillofacial and Oral Surgeons as well as the South African Society of Dental Implantology (now SAAO). Other academic involvement included serving on the Executive Committee of the Faculty of Maxillofacial and Oral Surgeons of the College of Medicine (SA) intermittently since 1992 and acting as an examiner to the final year maxillofacial and oral surgery students on numerous occasions.

His special interests encompass the application of dental implantology to enhance and complete patient rehabilitation brought about by bone grafting, orthognathic and craniofacial surgery. He has lectured locally and internationally and has had papers published in reputable international scientific journals. His leisure time activities include golf and fly-fishing.

Dr Van Der Meulen is a dental graduate of the University of the Witwatersrand (Johannesburg, South Africa). He qualified as a prosthodontist, with distinction, in 1988 from the University of Pretoria (South Africa), where he received both Academic Honours and the Dean's Award for Academic Distinction. He is currently in full-time private practice in Sandton, Johannesburg.

His passion within prosthodontics is the restoration of facial and smile aesthetics by utilising advanced digital CBCT, CAD/CAM technology, all-ceramic restorations and implantology, topics in which he has lectured extensively both nationally and internationally.

Dr Van Der Meulen was a member of the Global Pre-Launch Team for the NobelBiocare Guided Surgery and Prosthodontic concept, a treatment modality in which he has provided extensive advanced prosthodontic training.

Having represented South Africa at two World Windsurfing championships, he works closely with both elite and recreational athletes as an ambassador for dental health and optimal athletic performance. His passion for sport is also shared with his family and friends, cycling rather competitively and very occasionally windsurfing.

Southern Implants: the inside story  
08h00 - 17h00

Wednesday, 23 March  
Zwartkops Raceway



**Graham Blackbeard** (MSc Eng), Managing Director



#### Emergence diameter considerations

The effort involved in optimising implant platform diameters is often overlooked in favour of more topical areas of implant design.

However, much research and experimentation go into identifying, designing and manufacturing the ideal base for prosthetic support.

This lecture will offer insights into the data and rigorous testing used in designing internal and external connection platforms for specific tooth sites and case needs.

Graham completed a BSc in Mechanical Engineering at the University of Cape Town in 1979 and an MSc in Industrial Engineering at the University of Witwatersrand in 1982. In 1983-4 he was a Rotary Foundation Scholar at the Division of Artificial Organs at the University of Utah. He has engineered and manufactured heart valves, artificial hearts, various dental implant products, temporomandibular joint prostheses and various orthopaedic arthroplasties.

In 1987 Graham established Southern Implants in Irene, South Africa, and the business now offers more than 500 individual products in 19 countries. Graham is a renowned international speaker and author, talented waterskier and classic car enthusiast.



**Stuart Blackbeard** (BSc Mech Eng), Sales Engineering Manager



#### Zygomatic implant designs: the good, the bad and the ugly

Zygomatic implants have radically increased in popularity over the last decade and their design continues to break new barriers in both clinical and engineering respects.

This lecture will delve into the evolution and continual expansion of the Southern Implants zygomatic range, including drilling and instrumentation considerations, and the clinical experiences that informed them. The controversial topics of fracture strength and potential for misuse will be discussed.

Stuart Blackbeard achieved his Bachelors in Mechanical Engineering from the University of Cape Town in 2013. He has worked for Southern Implants in South Africa as well as the Australian and North American subsidiaries, and is also on the Board of Southern Implants Australia and Iberia.

His professional interests are novel dental implant prototypes, guided surgery, digital dentistry and associated devices and technologies.

Stuart recently attempted to break the 100kph barrier snow-skiing in Austria and has successfully decided that once was enough.

Southern Implants: the inside story  
08h00 - 17h00

Wednesday, 23 March  
Zwartkops Raceway



**Alex Stuart-Smith** (MSc Biomed), Senior Design Engineer



### Counting the millimeters: Co-Axis® implants vs Angulated Screw Channels

Anterior maxillary implant treatment almost always involves the correction of angular discrepancy between fixture and crown axes. This can be achieved either subcrestally (as with the Co-Axis® implant), or supracrestally with the increasingly popular angulated screw channel.

Since Southern Implants offers both options, the biomechanical advantages and disadvantages of each will be compared from an engineering viewpoint, to enhance the clinician's understanding of the differences between these two approaches.

Alex completed her undergraduate studies in Chemical Engineering at the University of Cape Town. Having a passion for the medical field, Alex went on to complete her Masters in Biomedical Engineering specializing in Biomaterials and Tissue Engineering at Imperial College London. Her Masters thesis focused on biodegradable hybrid materials for cartilage regeneration.

She has been at Southern Implants for just over 2.5 years and is the joint project manager on the Clean Implant Foundation certification project and leads design of the Angulated Screw Channel and SiBase abutments.

Alex balances engineering with her burgeoning career as a competitive runner.



**Nicholas Soupen** (BSc Hons Neurophys, BBA), Marketing Manager



### Subperiosteals using digital and 3D metal printing technology

The subperiosteal implant is defined as a design whereby a metal implant framework rests directly on top of the bone, underlying the periosteum, and provides attachment posts which extend through the gingival tissue for prosthesis anchorage. They were usually made of cobalt-chrome or titanium alloys and deemed complex due to the difficulty surrounding its technical execution, as it was necessary to capture a physical impression of the residual bone. Other issues such as difficulty in positioning them and high complication rates resulted in high failure rates. With the advent of digital technology, a new era in dentistry has begun.

Methods such as cone beam computed tomography (CBCT), intraoral scanners, digital software and 3D printers have simplified, improved and substantially sped up the planning and surgical procedure. Such technological advancement allows clinicians to see the world of dentistry in a completely different way, which is developing exponentially and expanding the capabilities that clinicians have when choosing a treatment option for their patients.

Nicholas Soupen holds an undergraduate degree in BSc Human Physiology and an honours degree in Neurophysiology from The University of Pretoria, South Africa. He furthered his qualification by completing a business degree (BBA) Cum Laude from IMM, South Africa. He is currently enrolled in a Masters Degree in Anatomy at the University of Pretoria.

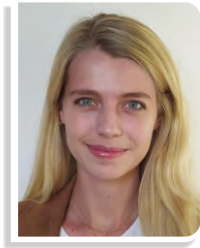
He is the Marketing Manager at Southern Implants and his goal is to ensure that Southern Implants continues to excel in the implantology field by constantly pursuing excellence in the marketing industry. He has gained clinical experience whilst working as a product and sales specialist for various companies such as Johnson and Johnson and Craniotech, where he successfully applied himself to design and innovate in the fields of maxillofacial surgery and custom patient-specific prostheses.

Outside of work, Nick is a self-confessed sport fanatic and gaming wizard.



Southern Implants: the inside story  
08h00 - 17h00

Wednesday, 23 March  
Zwartkops Raceway



**Inge Lubbe** (Beng Mech), Design Engineer



[Why TMJ replacements must be custom-made.](#)

The replacement of temporomandibular joints has the potential to improve patients' quality of life enormously. While it has been suggested that generic implants could reduce cost of treatment and provide access to more patients, the differences in condyle and fossa morphologies between individuals are wide-ranging and difficult to standardise. In this lecture, the idea of a "standard" TMJ replacement is discussed, and we consider the biomechanical, biomaterial and manufacturing factors that would affect such a product.

Inge Lubbe completed her undergraduate studies in Mechanical Engineering with distinction from the University of Pretoria. Since a young age she has always been interested in helping people, being fascinated with the Biomedical field growing up in a family of doctors. She is currently pursuing her Masters in Mechanical Engineering at the University of Stellenbosch. Her Masters' thesis is focused on the design of a temporomandibular joint implant.

She has been a Design Engineer at Southern Implants for just over one year being part of the Sales Engineering team.

In her free-time Inge enjoys playing her violin, reading, water-skiing when at the coast, playing tennis with her cousins, and spending as much time as possible with family.



**Leith Cumming** (BEng Mech), Chief Engineer



[Meet the engineers: a clinician's guide to design when innovating new products](#)

Southern Implants prides itself on listening to its users' ideas, and is therefore constantly involved in collaboration with clinicians about novel product designs.

This lecture will offer the innovation-minded clinician insight into the engineering challenges faced when developing new products and meeting customer requirements, such as geometric and material constraints, manufacturing best practices, and the state-of-the-art design and testing equipment used by our engineers.

Leith obtained his mechanical engineering degree from the University of Pretoria in 2008. He began work as a product engineer at Southern Implants in 2007 and took on the role of Engineering Manager in 2012.

In 2022 he became Acting Head of Regulatory Affairs and Quality.

Leith has expertise in finite element analysis and is a skilled amateur knife-maker.

Southern Implants: the inside story  
08h00 - 17h00

Wednesday, 23 March  
Zwartkops Raceway



**Ruvarashe Mitchell Ndoora** (BEng Chem), Head of Secondary Processing



**Alex Stuart-Smith** (MSc Biomed), Senior Design Engineer



#### Implant surfaces: manufacturer secrets

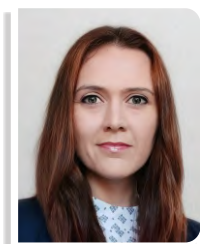
Implant surfaces have been literally and figuratively under the microscope for several decades, with almost all manufacturers promoting a different design and method of surface treatment. While surface topography is indeed critical to osseointegration, proprietary information is rarely shared by manufacturers, which begs the question, how much do we truly know about their processes?

As joint project managers of the Clean Implant Certification project, Alex and Ruva will outline the myriad of factors relating to implant surfaces from both an engineering and processing standpoint, and offer a peek behind the scenes at the many steps involved in manufacturing a trustworthy and optimal surface.

Ruva earned a degree in Chemical Engineering from the University of Cape Town in 2016. She is the Secondary Processing Manager at Southern Implants and her goal is to ensure that the processing department continually meets and exceeds industry quality standards.

She was formerly a process engineer for a manufacturing company in Durban, where she successfully applied process design and data analytics as well as Lean Six Sigma in identifying and reducing process waste and thereby implementing necessary quality systems.

Ruva is an avid reader and multilingual linguaphile.



**Tamsin Cracknell** (BEng Mech, MSc Clin Epi), Head of Clinical Affairs



#### How the new Medical Device Regulations (MDR) are eliminating small implant companies

2024 marks the deadline for medical device manufacturers who operate in Europe to comply with the new EU regulations, commonly known as MDR. The sheer rigour and detail required by this regulatory overhaul, coupled with a severe shortage of "notified bodies" to grant approval, is producing a tectonic shift in the entire industry and impacting manufacturers of everything from sutures to heart valves. More modest device companies will soon succumb to acquisition or total withdrawal from the EU, drastically reducing options for clinicians.

This lecture will define the fundamental role that a company's clinical users play in surmounting these challenges.

Tamsin Cracknell obtained a B Eng (Mechanical) from the University of Pretoria, South Africa in 2008. She worked as a systems engineer in coal-based power generation before joining orthopaedic implant company Southern Medical to compile technical literature for spinal discs and other medical devices.

She has worked with Southern Implants since June 2013 and currently manages the clinical research portfolio including all trials, clinical evaluations and post-market surveillance and follow-up.

Tamsin received a Masters in Clinical Epidemiology from Stellenbosch University in 2019 and is an aspiring drummer.

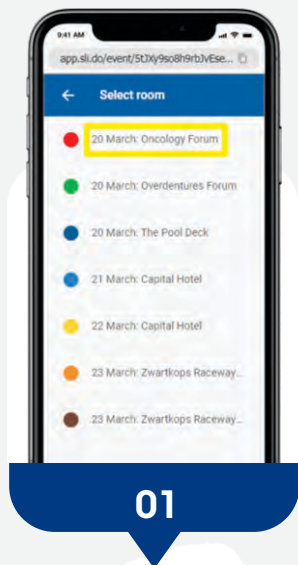
**NOTE:** Lectures to be presented in intervals between racing activities.



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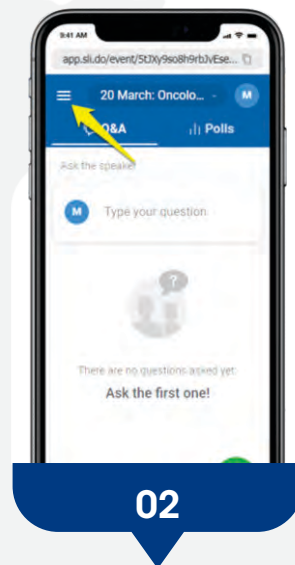
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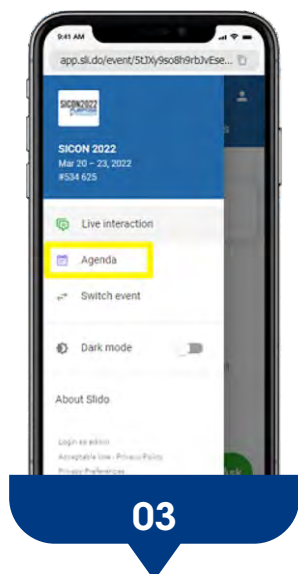
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Click on the relevant day and lecture room you would like to view the agenda of.



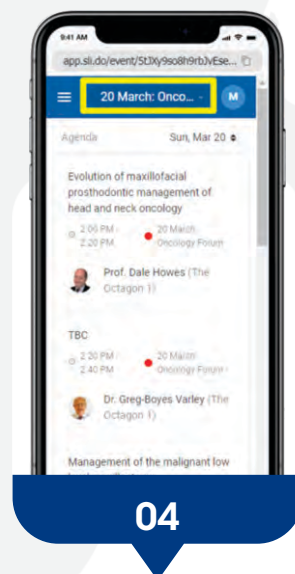
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03

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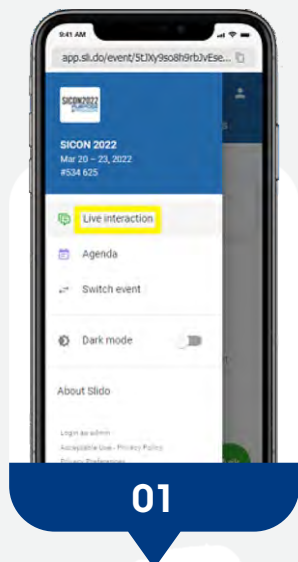


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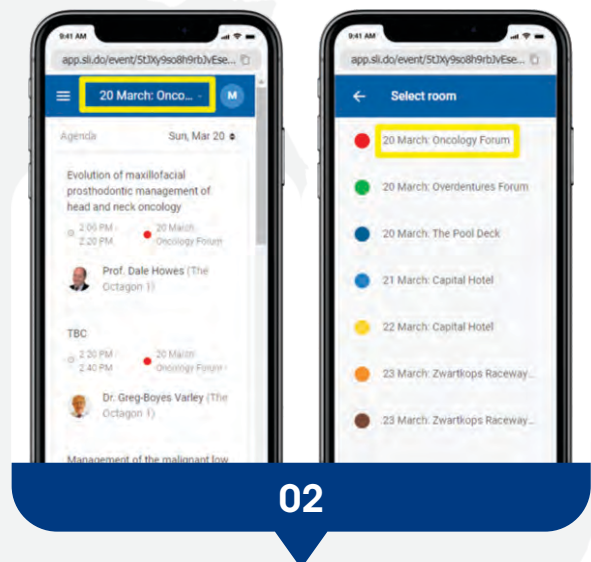
The agenda will display for the relevant day's session.  
Ensure the dates match to view the correct agenda.



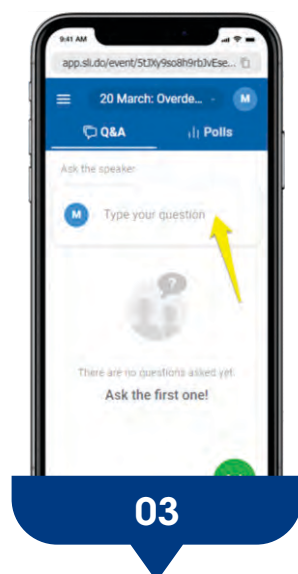
## Steps to participate in the Q&A sessions:



As lectures start, live audience interaction will be enabled.  
Click on the 3 lines and select 'Live Interaction'.

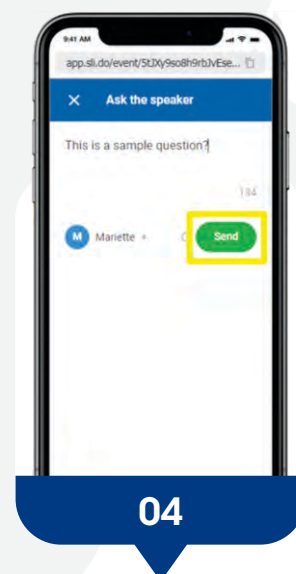


Click on the top of the page to bring up room selection and select the room to match the session you are in.



Click on the designated area to type in the question for the speaker.

**NOTE:** By default questions will be asked anonymously, but you can change it to include your name.



Click on the green 'Send' button to submit your question.

Once the moderator approves your question, it will be made live for everyone attending the session to see, and the speaker to answer in the Q&A slot.



# THINGS TO DO AROUND MENLYN MAINE

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## Restaurants



1

1

### **KOI, Menlyn Maine**

[www.koiresf.co.za](http://www.koiresf.co.za)

Tel: 012 348 4551

Open for Breakfast,  
Lunch and Dinner



2

2

### **Old Town Italy, Menlyn Maine**

[www.oldtown.co.za](http://www.oldtown.co.za)

Tel: 012 348 2802

Open for Breakfast,  
Lunch and Dinner



3

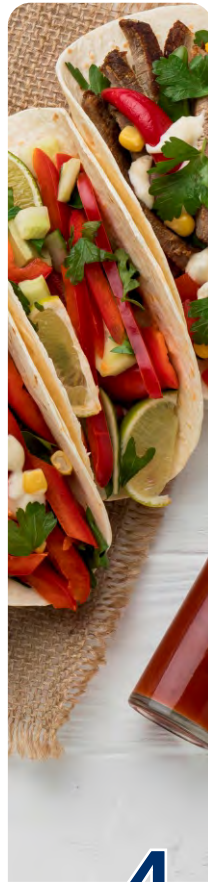
3

### **Tashas, Menlyn Maine**

[www.tashasmenus.com](http://www.tashasmenus.com)

Tel: 012 035 0367

Open for Breakfast,  
Lunch and Dinner



4

4

### **Salsa Mexican Grill, Menlyn Maine**

[www.salsamexicangrill.co.za](http://www.salsamexicangrill.co.za)

Tel: 012 682 0161

Open for Lunch and Dinner



5

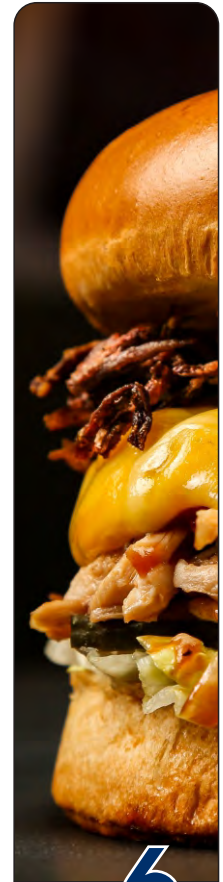
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### **Mythos, Menlyn Maine**

[www.mythos.co.za](http://www.mythos.co.za)

Tel: 012 682 0161

Open for Lunch and Dinner



6

6

### **Ribs & Burgers, Menlyn Maine**

[www.ribsandburgers.com](http://www.ribsandburgers.com)

Tel: 012 348 0029

Open for Lunch and Dinner

### **Sorbet, Menlyn Maine**

Body, Nail & Skin Care

[www.sorbet.co.za](http://www.sorbet.co.za)

Tel: 012 348 1075

### **Gary Rom, Menlyn Maine**

Premium Hair Salon

[www.garyrom.co.za](http://www.garyrom.co.za)

Tel: 012 348 0850

### **Camelot Spa, Menlyn Maine**

Spa

[www.camelotspa.co.za](http://www.camelotspa.co.za)

Tel: 010 054 6992

### **Sorbet Man, Menlyn Maine**

Sophisticated Male Grooming Bar

[www.sorbetman.co.za](http://www.sorbetman.co.za)

Tel: 012 348 4545

### **Gary Rom Man, Menlyn Maine**

Signature Barber

[www.garyrom.co.za](http://www.garyrom.co.za)

Tel: 012 880 2833

### **Tammy Taylor Nails, Menlyn Maine**

Nail Salon

[www.tammytaylornails.co.za](http://www.tammytaylornails.co.za)

Tel: 012 004 2554

Shuttle available to Menlyn Mall.

## Southern Implants supports...



Zimbowties is a social enterprise that creates eye-catching, handmade bow ties to fund Creativity Workshops for talented youth in Zimbabwe.

The business was started in 2016 by one of Southern Implants' former employees, Kim White while looking for a fun way to give back in his home country, Zimbabwe. He found that people in Zimbabwe were bringing colourful fabrics from across Africa into Zimbabwe to have clothes made but they weren't using their offcuts.

Partnering with his mother, Anne, they started getting tailors to make one-of-a-kind bow ties from these offcuts, giving the tailors extra income and helping to reduce waste in their local clothing industry. By not using virgin fabrics, Zimbowties has saved over 120,000 litres of water (that's the same amount of water that the average person uses showering daily over 5 years). They now sell these unique products in 10 stores worldwide and people in more than 25 countries around the world are wearing them.

With the funds they raise from their sales, Zimbowties finds youth in Zimbabwe who display exceptional creativity and invites them to attend Creativity Workshops that include over 10 hours of training in a creative skill such as music, painting or papercraft, and more general creative thinking. Zimbowties believes that these Creativity Workshops will help to inspire these youngsters to become the next generation of innovators, entrepreneurs and change makers.

To date, Zimbowties has awarded more than 75 youth in Zimbabwe these Creativity Awards.

Learn more at: [www.zimbowties.com/southern-implants](http://www.zimbowties.com/southern-implants)



## BUILD your SMILE Dental Foundation



The foundation's implant placement program began in 2014. A team of dental professionals led by Dr Izchak Barzilay volunteered their time and expertise to deliver critical care to undeserved and impoverished communities in Uganda. Initially the team was only to provide standard dental care- emergency management, oral surgery, restorations, oral hygiene and nutritional counselling.

In February 2018 Dr Barzilay introduced a unique pilot project- dental implant placement and restoration. Two cases were carefully selected, implants were placed and

restored with temporary restorations and final impressions. The patients were seen for regular assessments by Ugandan dental officers who were trained by Dr Barzilay. Final restorations were manufactured in Toronto and placed on a later visit.

Build your smile foundation's long term goal is to continually expand the prosthodontic and implant programs both clinically and academically.

Learn More: <https://www.buildyoursmile.org/>



## Southern Implants supports...

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The need for Maxillo-facial Reconstruction in Southern Africa outweighs the available resources.

As part of our company's social responsibility, we have decided to create an initiative called the "Southern MFRI" (Southern Maxillo-Facial Reconstruction Initiative).

Southern Implants will sponsor all implants and componentry for at least 6 selected cases per annum.

Southern MFRI looks forward to partnering with individuals, practices and societies that are able to join us in making a difference and changing the lives for a small number of deserving patients.

Those that join in this initiative will be assigned a patient and kept up to date with the treatment progression.

For more information contact [sue@southernimplants.com](mailto:sue@southernimplants.com)

# International Forum SOUTH AFRICA ZIMBALI KZN 2024

## APRIL 2024

Dates to be confirmed

## Southern Implant's Subsidiaries and Distributors

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A special thank you to our Subsidiaries and Distributors,  
for your dedication and support in helping us  
make this event a success.



Bruce McDowell  
Australia



Steve Snook  
UK & Ireland



Jordi Demestre  
Spain



David Luiz  
SINA



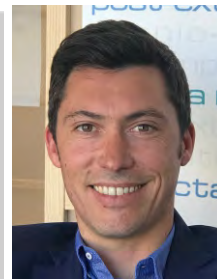
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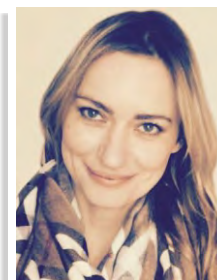
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Ero Pandelias  
Greece & UAE



Selva Hiziroğlu  
Turkey

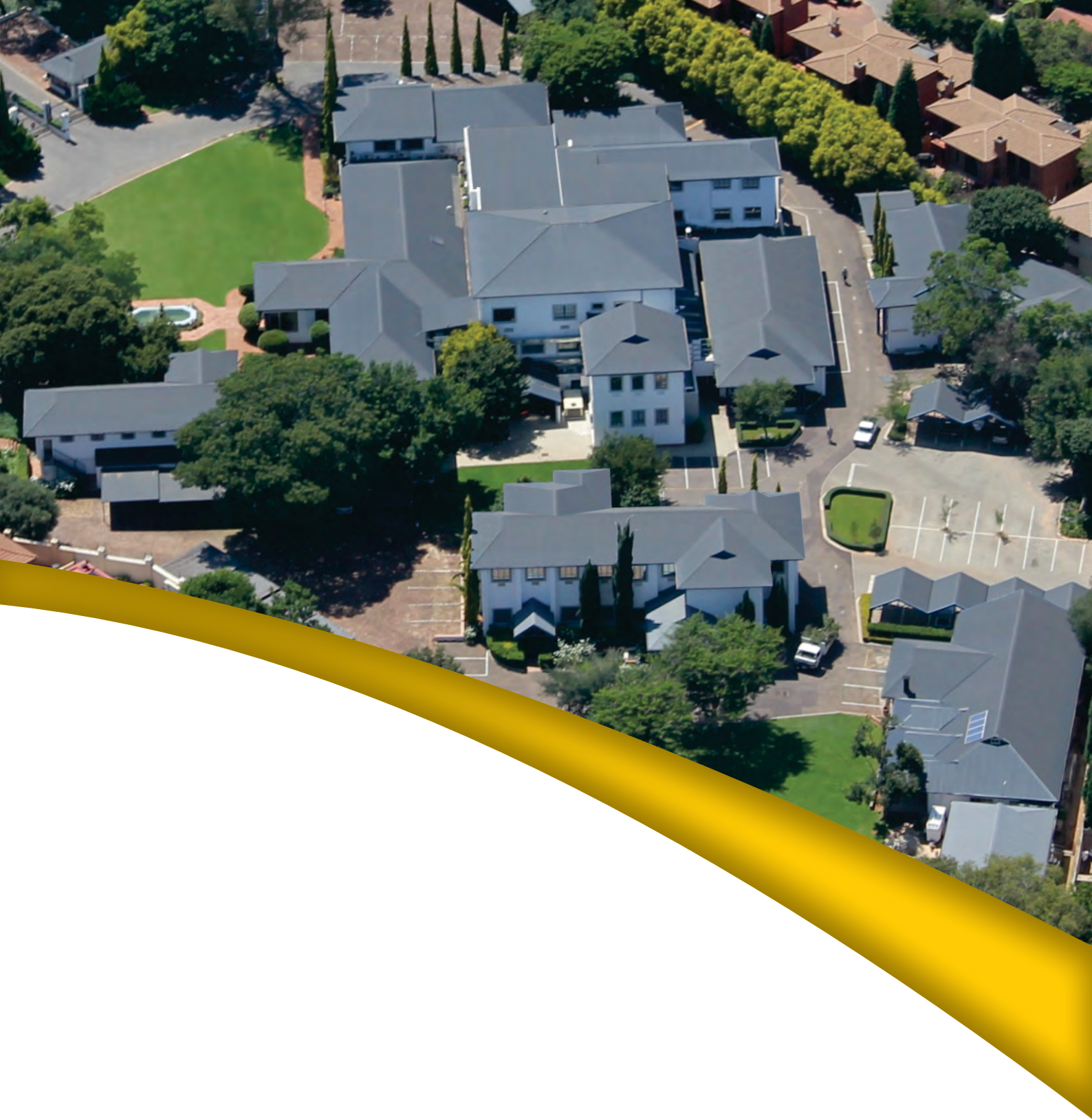


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For more information scan the below



or visit

**[SOUTHERNIMPLANTS.COM](https://www.southernimplants.com)**