About the Program
There is no secret that patients today want whiter and brighter natural looking teeth just as they see in the movies and on television every day. Whether the restorations are on implants or on natural teeth, patients expect esthetic solutions that are predictable and long lasting.

For natural teeth, advances in ceramic materials and modern restorative techniques have made esthetic dentistry more available and more affordable today. Improved esthetic results can be achieved with conservative procedures and non metallic materials such as veneers, inlays, onlays and all-ceramic full crowns. For implants, CAD/CAM technology and modern high strength materials provide solutions today that were not available even a few short years ago.

The objective of this comprehensive training program is to present different treatment options brought to you by the best faculty of Esthetic Dentistry at the Herman Ostrow School of Dentistry of USC.

The USC Esthetic Dentistry Training Program 2018 features the following modules:
• Twelve days in Hong Kong consisting of two 4-day sessions including lectures and hands-on workshops
• Six days in Los Angeles including 4 days of lectures at USC and 2 days at the 11th USC International Restorative Symposium

The main strength of this program is that up to date and predictable protocols will be presented in a systematic manner by world experts on faculty at Herman Ostrow School of Dentistry of USC.

Who will benefit from attending this course:
This course is appropriate for any clinician who is interested in gaining comprehensive training in esthetic dentistry:
• Beginners with limited esthetic dentistry knowledge
• Clinicians with intermediate or advanced experience in restorative dentistry who would like to increase the predictability of their treatment by adopting evidence based updated protocols

Please note: We reserve the right to change course dates, times and speakers in the event of unforeseen circumstances. Every effort will be made to notify participants in advance.

We look forward to welcoming you to our program in Hong Kong, Taipei and Los Angeles!

Baldwin Marchack, DDS, MBA
Program Director
Educational Objectives

Introduction to the Program:
Patients today are more informed than ever before. They receive information from their friends. They research online. They desire and they demand esthetic dental treatment whether it is for natural teeth or implants.

The goal of this comprehensive program is to provide the clinician with current information on diagnosis and treatment planning, photography and documentation, the trend to minimally invasive dentistry, adhesive dentistry, the state of the art with CAD/CAM restorations, biomechanics and occlusion, and esthetic implant restorations.

Topics to be covered
• Photography and documentation
• Diagnosis and treatment planning
• Esthetic Dentistry and Smile Design
• Modern Dental Materials
• Adhesive Dentistry
• CAD/CAM Dentistry
• Restorations for Natural Teeth and Implants
• Esthetic Periodontal Surgical Procedures

Restorations for Natural teeth
• Direct and Indirect restorations
• Partial coverage - inlays, onlays and veneers
• Minimally invasive concepts
• CAD/CAM restorations
• Full coverage crowns

Restorations for Implants
• Diagnose and treatment plan fixed implant solutions with confidence
• Communicate implant prosthesis designs to the laboratory effectively
• Understand the biomechanics of teeth and Implants
• Communicate desired occlusal schemes for implant restorations with lab
• Consistently create ideal, esthetic and functional implant restorations with healthy gingival tissue

Esthetic Periodontal Surgical procedures
• Conservative gingival grafting procedures
• Esthetic crown lengthening
Introduction to the program
Dentistry is changing and restorative dentistry has advanced in giant strides. With over a hundred years of history, USC has been known all over the world for its excellence in the dentistry. USC is taking the lead to modernize dental education especially in the field of bonded restorations.

Day 1
Esthetics and Occlusion
Intra-Oral Photography
Participants will be exposed to the different types of materials, contemporary protocols, and procedures available today to provide esthetic dental treatment. The role of occlusion in esthetic dentistry will be discussed. Also on day one, the lecture will familiarize the participants with the basic photographic knowledge needed to produce high quality intra-oral and extra-oral photographs.

Day 2
Shade Matching and Smile Design
Esthetics and Implant Prosthetics
Participants will learn all the relevant applications of dental digital photography for today’s esthetic dental practice, i.e. smile design, shade matching and marketing. Smile Design is an important step in esthetic treatment planning in order to have better communication with the patient and the technician before treatment begins. The lecture will show the use of presentation software to design the smile digitally which is simple to use and easy for the patient to visualize the esthetic outcome. On day two, the role of esthetics in implant dentistry will be presented.

Educational Objectives:
• Diagnosis and treatment planning
• Understand basic photography techniques
• Principles of Smile Design
• Shade matching
• The role of occlusion in esthetic dentistry
• Esthetics and implant prosthetics
Module 1: Hong Kong
Friday, March 9, 2018 – Monday, March 12, 2018

Day 3
Comprehensive Materials Science Overview
With a conservative approach in mind, the restorative team should be able to provide patients with minimally invasive, highly esthetic, and long-lasting solutions. Clinicians are currently faced by a plethora of restorative materials, fabrication techniques and treatment options, including conventional and digital, that make it difficult to choose the right solution for each and every case. They should understand the challenges that range from selecting the appropriate materials and techniques for varying situations up to applying the correct protocol on all surfaces that are involved in the bonding/luting procedures of direct and indirect restorations. This lecture will focus on current key clinical and material science principles as a foundation to create esthetic and long-lasting direct and indirect restorations. In addition, this presentation provides a systematic and scientific approach for selecting esthetic treatment modalities based on original research data with special emphasis on new techniques, materials, and selection.

Clinical data show that this micro-invasive technique complements existing treatment options for early caries, by delaying the time point for a restoration and so closing the gap between non-invasive and invasive treatment options. Emphasis of this lecture will be on linking research data to its clinical procedures in esthetic and preventive dentistry.

Educational Objectives:
• Evidence-based decision making on materials selection: When to select which material?
• Understand how unique ceramic reinforced-polymer systems, hybrid ceramic, and ceramic CAD/CAM materials provide solutions to create greater clinical success.
• Understand current adhesive concepts to dental hard tissue and restorations.
• Understand the fundamentals of caries risk assessment as key to clinical success in caries management.
• Understand the latest status of resin infiltration—indications and contraindications.
• Be able to inhibit caries progression in interproximal lesions using the micro-invasive resin infiltration.
• Considerations for the clinical application of resin infiltration in the esthetic zone using resin infiltration in the anterior zone on post-orthodontic white spot lesions.

Day 4
Caries Risk Assessment and Non-/Micro-invasive Caries Management Options
Modern management of caries has more facets than just ‘drilling-and-filling’. Current concepts include caries risk assessment, non-invasive measures, such as fluoridation, dietary control, and oral hygiene instruction, sealants, as well as invasive measures using restorations. Additionally, newer, intermediate treatment options for inter proximal caries and post-orthodontic white spot lesions have shown to be effective in preventing and inhibiting caries. Such new micro-invasive techniques include the application of resins on interproximal caries lesions, which infiltrate and seal the carious lesion, improving the inhibition of caries progression and improving the esthetic appearance as well.
Day 1
Complex esthetic and functional adhesive rehabilitations
Understanding the basic principles of esthetic dentistry, function, as well as indication and limitations of current materials and techniques allow clinicians to perform treatments with predictable outcomes. The combination of adhesive dentistry with new restorative technology and techniques enhance treatment options for both minimally invasive and traditional full-mouth rehabilitation. This lecture will provide clinical and scientific knowledge for selecting reliable restorative materials and adhesive strategies to rehabilitate simples and complex cases using minimally invasive dentistry.

Day 2
This course will focus on both clinical and scientific approaches for selecting esthetic treatment based protocols and data produced by the Division of Restorative Sciences, Herman Ostrow School of Dentistry of the University of Southern California.

At the end of the course, attendees should be able to (1) understand how to applied fundamental principles of esthetics to restore the anterior dentition; (2) recognize the importance of functional rehabilitation; (3) understand how to restore worn dentition using minimally invasive adhesive dentistry; and (4) recognize the challenges related to establishing a stable adhesive interface.
Module 2: Hong Kong
Friday, June 22, 2018 – Monday, June 25, 2018

Additive and Resective Periodontal Plastic Surgery.
A Restorative Perspective.

Day 3
Additive Periodontal Plastic Procedures

Day 4
Resective Periodontal Plastic Procedures

Synopsis
Periodontal treatment outcome is primarily dependant on proper diagnostic, prognostic and treatment planning. Only after those requirements are satisfied that a proper execution will interplay. Restorative dentists face on a daily basis the decision making of bonding on a denuded root or grafting it. Placing a crown margin deep in the periodontal sulcus or crown lengthening the tooth. What is the best treatment for our patient and why?

The purpose of this presentation will be to discuss:
• Understand the basics of a smile design
• Diagnosis of a clinically short dentition and the treatment with esthetic surgical crown lengthening
• Diagnosis of “biological width” and the treatment with functional surgical crown lengthening.
• Diagnosis and treatment planning of none-curious radicular lesion.
• Diagnosis and treatment planning of exposed root with connective tissue graft
• Discuss the application of biological modifier in the current trend of periodontal plastic procedures.
Module 3: Hong Kong
Friday, August 31, 2018 – Monday, September 3, 2018

Day 1
Restorative Dentistry: From Traditional to Contemporary

Day 2
Treatment Options for Indirect Restorations in the contemporary age. Lecture and hands-on.
The lecture will focus on treatment options and techniques in bonded and cemented restorations.

Dentistry has evolved a long way during the past decade. When preservation of tooth structure, minimum invasive dentistry, and esthetics became the primary goal in restorative dentistry, bonding and new dental materials become the means to achieve this goal. This presentation will discuss some of the predictable treatment options available and what we do at USC.

The hands-on part of the course will involve preparation designs on CAD-CAM onlays and all ceramic crowns.
Day 3
CEREC for Everyone! From Inlays to Implants, There is a CEREC restoration for all your patients’ needs. CAD/CAM restorations have become mainstream in Dentistry in the past few years. Demand for restorations to be completed in less time is now commonly requested by our patients. The use of Intraoral Scanners and In-Office mills is steadily increasing and will become a standard in our practices in the near future. This course will cover the use of the CEREC system to fabricate restorations for our patients as well as the streamlining of the system into the daily practice.

Day 4
Educational Objectives:
• Learn Indications of CEREC System
• Learn to Scan and Design with CEREC System
• Learn to use the Mill and how to do simple maintenance on the Mill.
Esthetic and Adhesive Dentistry
Day 1 & 2: Dr. Pascal Magne
Day 3 & 4: Dr. Sillas Duarte

Synopsis
Bonded restorations in the anterior and posterior dentition
The combination of both composites and ceramics seems theoretically appropriate to reproduce the original stiffness of the tooth and modulate the tooth-restoration strength. Therefore, modern concepts in restorative dentistry have brought new solutions through bonded porcelain restorations (BPRs) that are stress distributors and involve the crown of the tooth as a whole in supporting occlusal force and masticatory function. Among these, the good overall clinical behavior of anterior porcelain laminate veneers bonded tooth in terms of fracture rates, microleakage, debonding and soft tissue response is generally well recognized and attested by numerous clinical studies. Continuous developments in the field of adhesive restorative techniques have permitted significant broadening of the originally-defined spectrum of indications for BPRs in the anterior dentition and thus contribute to two of the major objectives of conservative restorative dentistry: the maximum preservation of sound tooth structure and the maintenance of the vitality of the teeth to be restored. Indications for BPRs are extending to more perilous situations (worn-down, nonvital or crown-fractured teeth), resulting in considerable improvements, comprising both the medical-biological aspect and the socio-economical context (ie, decrease of costs when compared to traditional and more invasive prosthetic treatments). From this perspective, indications, treatment planning, diagnostics, tooth preparation, laboratory procedures and adhesive luting procedures of BPRs will be carefully detailed.

Ultraconservative esthetic treatment options
Esthetic restorative procedures can only be mastered consistently if both clinician and ceramist are perfectly familiar with the basic principles of natural oral esthetics. Most important criteria have been selected and are presented in the form of a checklist for esthetic restorative success (modified from Belser). This overview of esthetic principles is not limited to simple tooth esthetics, but includes the entire knowledge of gingival esthetics and the final esthetic integration into the frame of the smile, face and - more generally - the individual.

At the end of the course participants will be familiar with:
• Basic principles of natural oral esthetics.
• A checklist of important criteria for esthetic restorative success.
• Gingival esthetics and challenges related to the loss of inter-dental tissues in fixed partial dentures and implant-supported restorations.
Synopsis

It gives us great pleasure to invite you to attend the 8th annual USC International Restorative Dentistry Symposium for 2018. The goal of this symposium is to update the dental community on contemporary “hot” topics related to restorative dentistry. The symposium will showcase current, evidence-based information, with presentations by nationally and internationally renowned speakers who are opinion leaders, academicians, educators and researchers.

The goal of the symposium is to critically look at the more contemporary dental materials, procedures, techniques and technologies, and to assist the profession in providing better restorative, esthetic and implant dentistry for the patient. A carefully selected group of national and international speakers will share their clinical experience, research, and opinions to provide a better understanding of the advances in restorative science as it relates to clinical care. There will be time allocated for open discussion between course participants and the presenters.

We hope to see you in what promises to be a most enjoyable and educational experience.

For further information regarding the symposium, please visit: dentalcontinuingeducation.usc.edu.
### Sessions in Summary

<table>
<thead>
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<th>Date</th>
<th>Presenter(s)</th>
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<tr>
<td>March 9 - 10, 2018</td>
<td>Dr. Baldwin Marchack &amp; Dr. Ryan Tse</td>
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<td>March 11 - 12, 2018</td>
<td>Dr. Jin Ho Phark</td>
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<td>June 22 - 23, 2018</td>
<td>Dr. Neimar Sartori</td>
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<td>June 24 - 25, 2018</td>
<td>Dr. Alexandre Amir Aalam</td>
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<td>August 31 - Sept 1, 2018</td>
<td>Dr. Eddie Sheh</td>
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<td>Sept 2 - 3, 2018</td>
<td>Dr. Richard Lin</td>
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<td>October 8 - 9, 2018</td>
<td>Dr. Pascal Magne</td>
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<td>October 10 - 11, 2018</td>
<td>Dr. Sillas Duarte</td>
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<td>October 12 &amp; 13, 2018</td>
<td>The 11th International Restorative Symposium</td>
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How to Register

Online registration available at dentalcontinuingeducation.usc.edu. Click on Calendar of Courses -> 2018 -> March Courses. For questions in regards to making payment via wire transfer or credit card, please email to: shuli@usc.edu., or fax form to: (1) 213-740-3973

Registration Fees

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Registration Form

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Title ___________________________ Specialty ___________________________
Address ___________________________
City ___________________________ Province ___________________________ Country ___________________________ Postal Code ___________________________
Phone (______) __________________ Fax (______) __________________
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☐ Mastercard  ☐ Visa

Enclosed

Card Number ___________________________ Expiration Date ___________________________

Total Payment $ ___________________________

Wire Transfer

For wire transfer information, please contact Ms. Shu Li at shuli@usc.edu
SWIFT: BOFAUS3N
Bank Name: Bank of America
CHIPS Address: 0959
Bank Address: CA9-193-13-21
Account Number: 14593-18994
333 S. Hope Street
Account Name: USC Wire Account
Los Angeles, CA 90071
Reference: USC School of Dentistry CE -

Enquiries

Herman Ostrow School of Dentistry of USC Office of Continuing Education
925 W. 34th Street, Room 201J, Los Angeles, CA 90089-0641

Los Angeles  Hong Kong
Ms. Shu Li  Ms. May Chan  Dr. Ryan Tse
E-mail: shuli@usc.edu  Tel: (852) 6396-8934  Tel: (852) 9462-2904
Tel: (1) 213-740-8381  Fax: (852) 2537-6604  Facebook: Tse Tak On Ryan
Fax: (1) 213-740-3973
**Dr. Ryan Tse**

Dr. Ryan Tse received his BDS degree in University of Hong Kong. He obtained a master degree in Clinical Dentistry (Prosthodontics) in University of London and Master of Science in Implant Dentistry in University of Hong Kong. He is also a graduate in Kois Centre and finished the whole comprehensive curriculum involving aesthetic, occlusion and restorative dentistry. He is one of the instructors in USC Esthetic Dentistry training program (China), USC implant training program (HK). He is Vice President of Chinese Academy of Esthetic Dentistry, Vice President of Hong Kong Society of Implant Dentistry. Currently he maintains a private practice in Hong Kong focusing in Implant and Esthetic Dentistry.

**Professor Dr. Eddie Sheh**

Dr. Sheh graduated from Kaohsiung Medical School in Taiwan in 1986. He then immigrated to the US and graduated from The International Dentist Program (ISP) at USC in 1991 and later completed the Advanced Prosthodontic Program at USC in 1999. He taught part-time in USC from 1991 to 1996, and full time from 1999 to the present. Dr. Sheh is currently a clinical professor at USC. Dr. Sheh co-chair of section of Fixed Prosthodontics and Operative Dentistry at USC from 2007 to present, and is also the Director of the Advanced Standing Program for International Dentists (former International Student Program) from 2010 to present. He maintains a private practice in Brentwood CA, limited to Periodontics and Reconstructive Implant Dentistry. Dr. Sheh lectures and publications in the field of dental implants and site development procedures.

**Dr. Jin-Ho Phark**

Dr. Phark graduated from the Humboldt University Dental School in Berlin Germany, where he also received his doctorate degree. Currently Dr. Phark is an Assistant Professor of Clinical Dentistry in the Division of Restorative Sciences at the Herman Ostrow School of Dentistry of USC, Los Angeles, California. He is the author of the bestseller textbook “Bonded Porcelain Restorations” (Quintessence Publishing, 2002 - translated in 12 languages) as well as clinical and research articles on esthetics and adhesive dentistry and is frequently invited to lecture on these topics.

**Dr. Sillas Duarte**

Dr. Duarte is associate professor and Chair, Division of Restorative Sciences, Herman Ostrow School of Dentistry of USC, Los Angeles, California. Dr. Duarte is Director of the Advanced Program in Operative Dentistry at USC and the editor-in-chief of Quintessence of Dental Technology (QDT). Dr. Duarte has served on the editorial boards of other journals, and has lectured and instructed hands-on courses nationally and internationally on esthetic and adhesion dentistry. He has been involved in teaching cutting-edge clinical techniques and technologies related to aesthetic and adhesive dentistry.

**Dr. Pascal Magne**

Dr. Magne obtained his B.Sc. (Switzerland) and specialized in prosthodontics and operative dentistry (DMD, MSc.). He received his PhD degree in ’02 and served as senior lecturer from ’99 to ’04. Awarded with major grants by the Swiss Science Foundation, the Swiss Foundation for Medical-Biological Grants, and the International Association for Dental Research, he spent two years as a full-time research scholar in biomaterials and biomechanics at the University of Minnesota. He became Tenured Associate Professor at USC where he received the endowed Chair of Esthetic Dentistry, the Don and Sybil Harrington Foundation Professor of Esthetic Dentistry. He is the author of the bestseller textbook “Bonded Porcelain Restorations” (Quintessence Publishing, 2002 - translated in 12 languages) as well as clinical and research articles on esthetics and adhesive dentistry and is frequently invited to lecture on these topics.

**Dr. Richard Lin**

Dr Lin graduated from the University of British Columbia in 1997 with his Bachelor of Science degree. He received his DDS degree from the Herman Ostrow School of Dentistry of USC in 2002 and also received his Certificate of Advanced Education in Prosthodontics from USC in 2007. Dr. Lin is currently Assistant Professor in the Division of Restorative Sciences of Herman Ostrow School of Dentistry of the University of Southern California. His emphasis is on teaching the digital scanning of tooth preparations, and the design and milling of CADCAM restorations.

**Dr. Neimar Sartori**

Dr. Sartori is an assistant professor of clinical dentistry, Division of Restorative Sciences, at the University of Southern California, as well as assistant director of the Advanced Program in Advanced Operative and Adhesive Dentistry and associate editor of Quintessence of Dental Technology. Dr. Sartori received his DDS degree in 2005, MS and certificate in operative dentistry in 2008, and his PhD in Dentistry Biomaterials in 2011 from the Federal University of Santa Catarina, Brazil. He was a visiting Research Scholar at Case Western Reserve University in 2010 and at Ostrow School of Dentistry of USC in 2011.

**Dr. Aalam**

Dr. Aalam graduated with a DDS degree from the University of Nice Sophia Antipolis, Nice (France). He subsequently specialized in Advanced Periodontics at the University of Southern California, Los Angeles. Dr. Aalam is a Diplomate of the American Board of Periodontology and a Diplomate of the American Board of Oral Implantology. The French Society and the California Society of Periodontology awarded Dr. Aalam for his contribution to clinical research in the field of implant dentistry. Dr. Aalam is a Clinical Assistant Professor of dentistry at USC. In 2012, Dr. Aalam was appointed as the USC dental school representative on the Board of Governors. He maintains a private practice in Brentwood CA, limited to Periodontics and Reconstructive Implant Dentistry. Dr. Aalam lectures and publishes in the field of dental implants and site development procedures.

**Dr. Marchack**

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