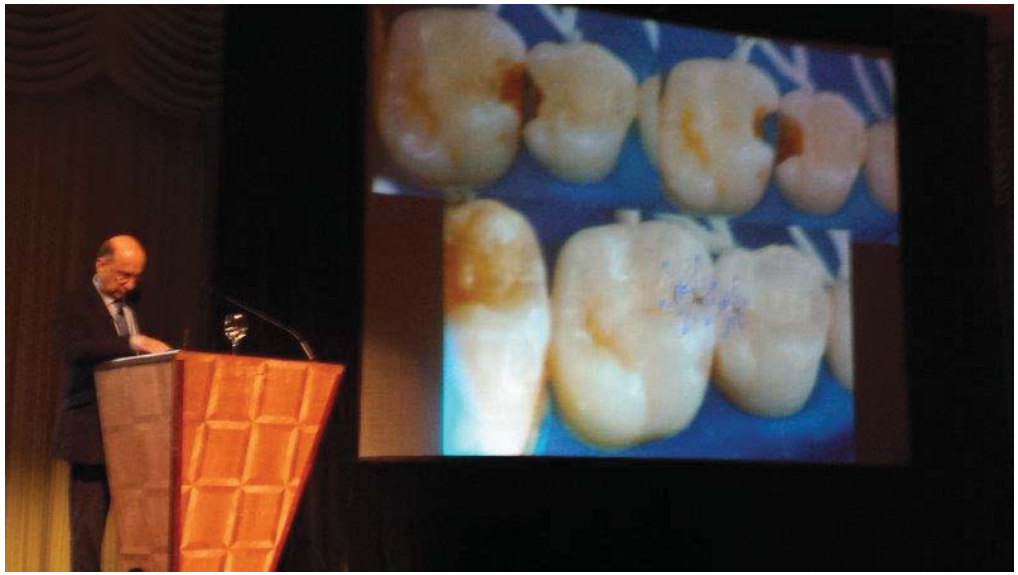
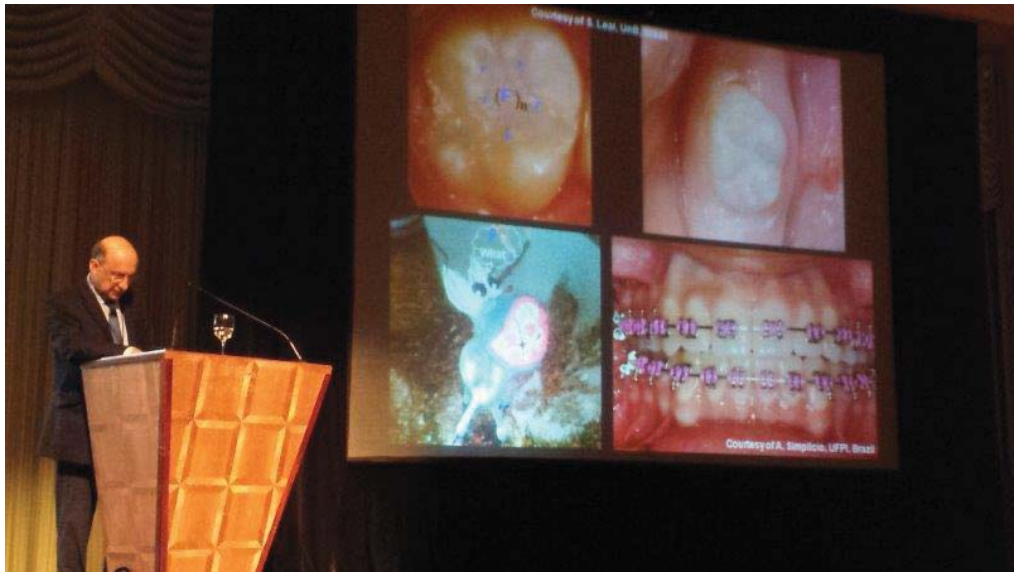
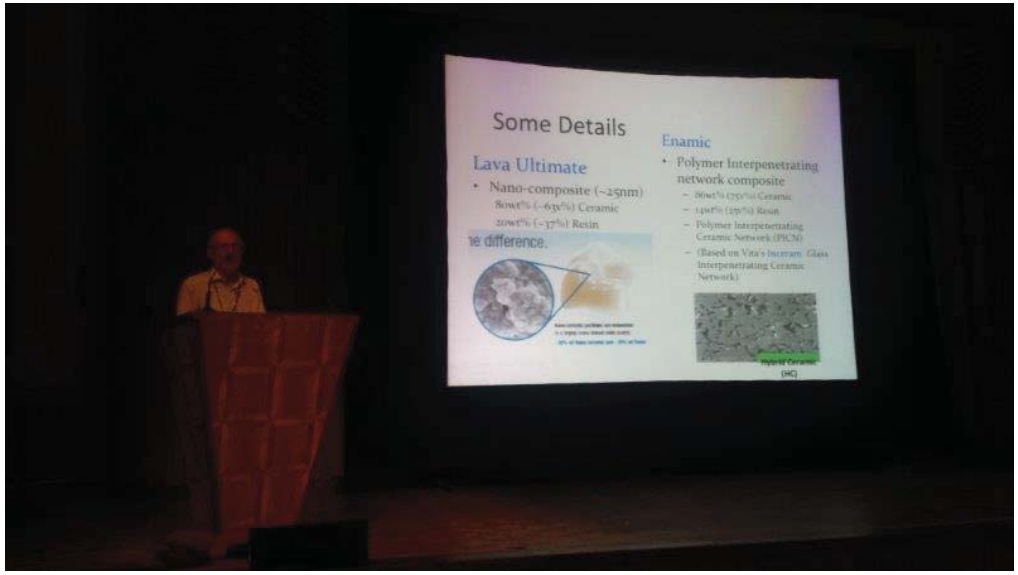
Secondary Caries and
Microleakage

2016 Academy of Dental Materials Meeting
The Drake Hotel, Chicago, IL, USA
October 12-15, 2016




Courtesy of A. Simplicio, UFPI, Brazil

Some Details
Lava Ultimate
• Nano-composite (~25nm)
80wt% (~63v%) Ceramic
20wt% (~37v%) Resin
ne difference.
Enamic
• Polymer Interpenetrating network composite
– 86wt% (75v%) Ceramic
– 14wt% (25v%) Resin
– Polymer Interpenetrating Ceramic Network (PICN)
– (Based on Vita's Inceram Glass Interpenetrating Ceramic Network)
Hybrid Ceramic
(HC)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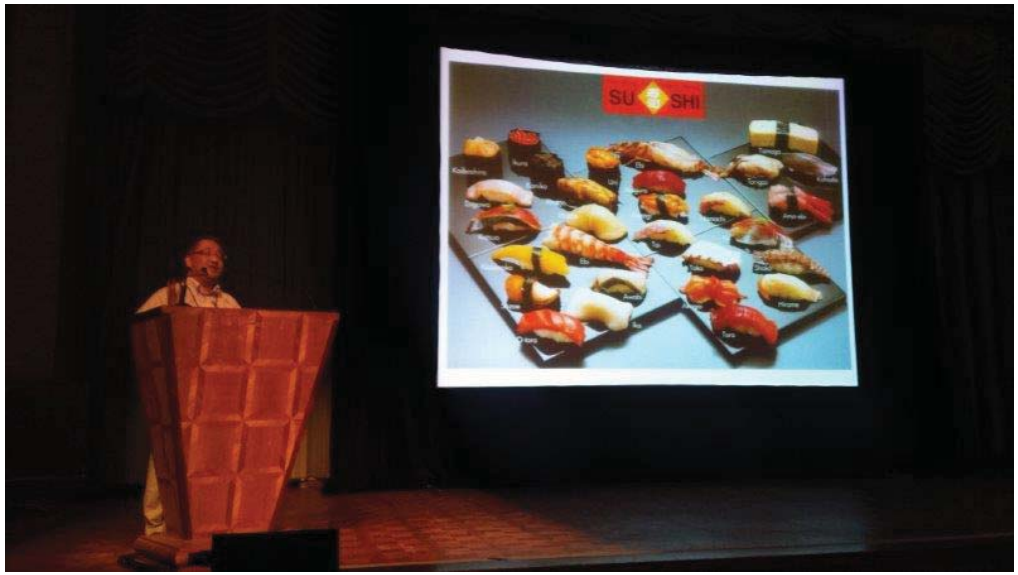
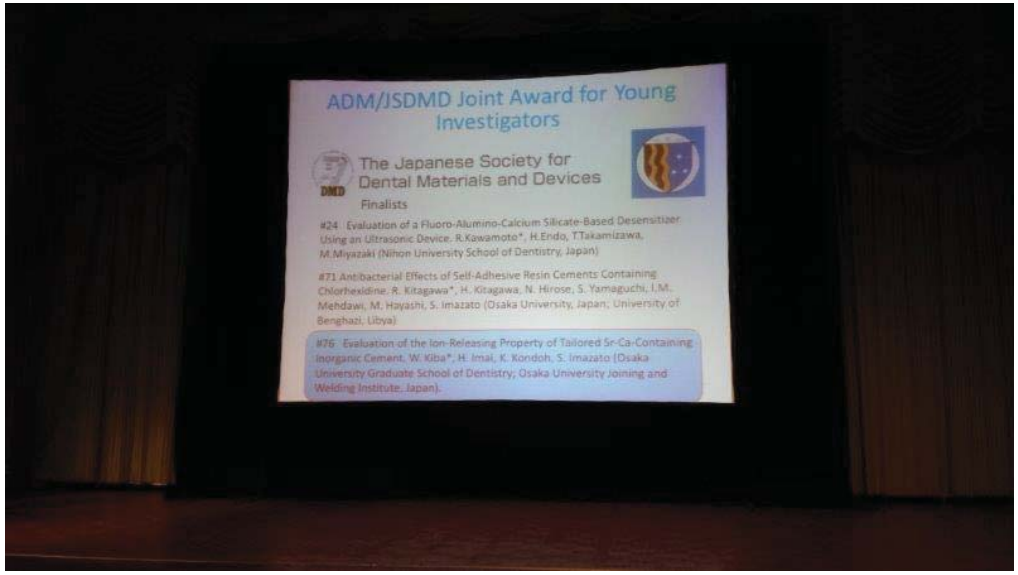
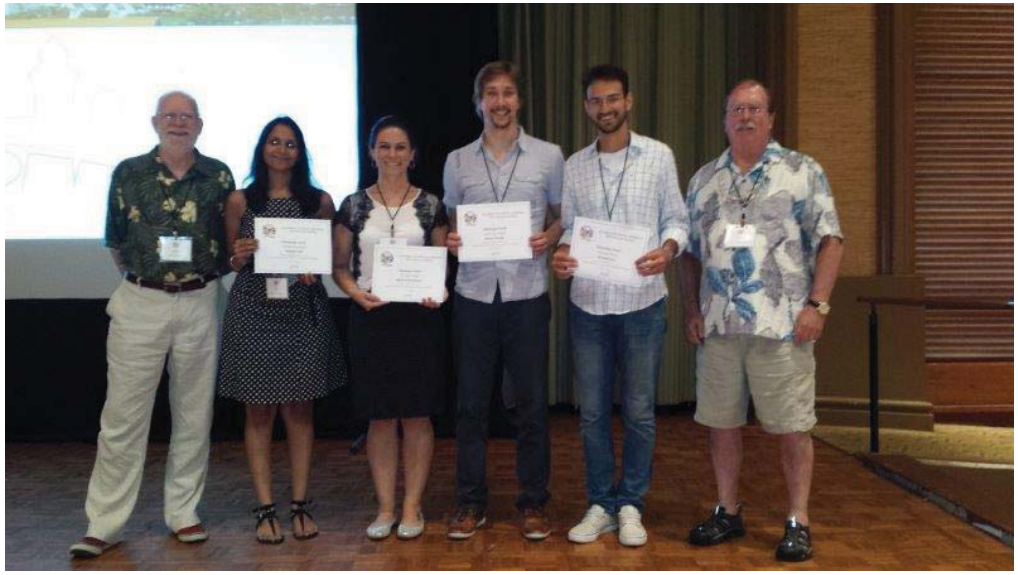
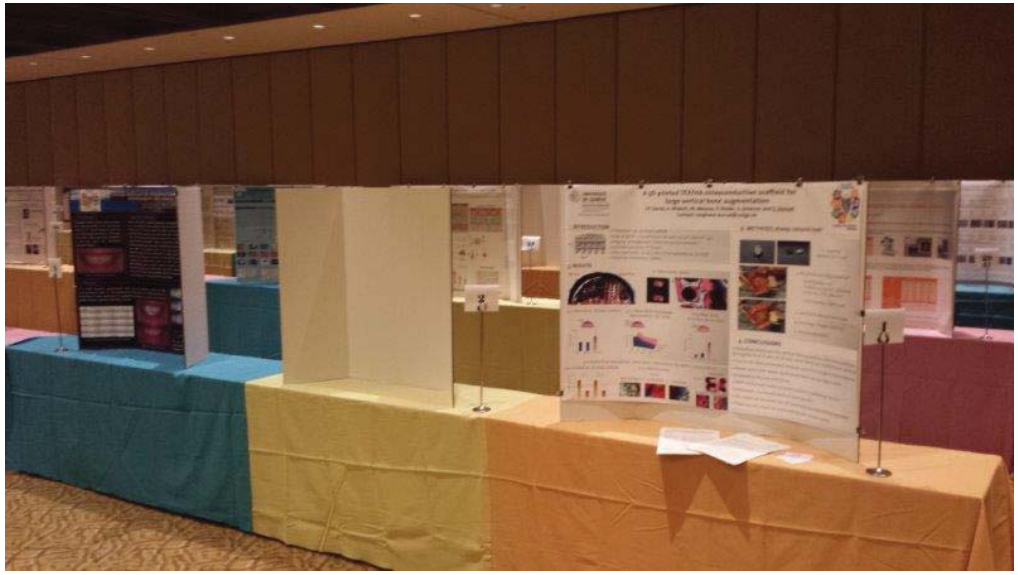
SU SHI

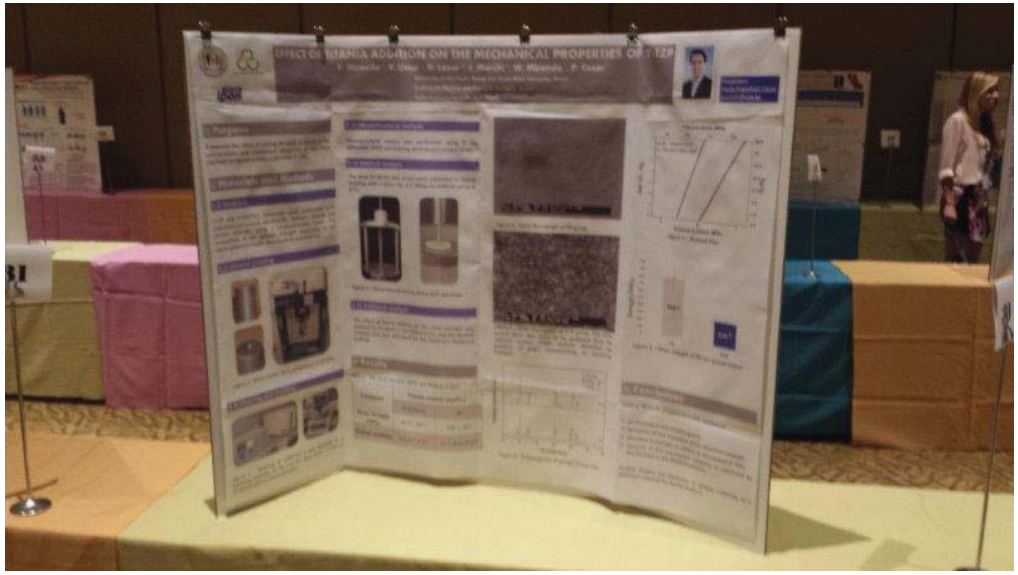

SU SHI

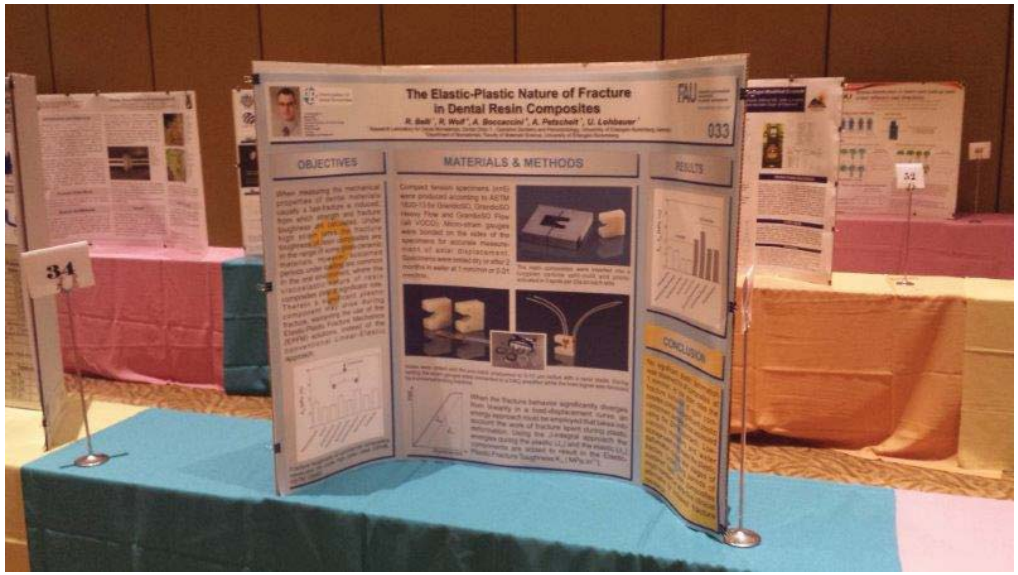
ACADEMY OF DENTAL MATERIALS
2015 Annual Meeting
George C. Paffenbarger Student Research Award
Commendation
Sakshi Jain
"Growth of crystalline titanium films in different acid electrolytes"

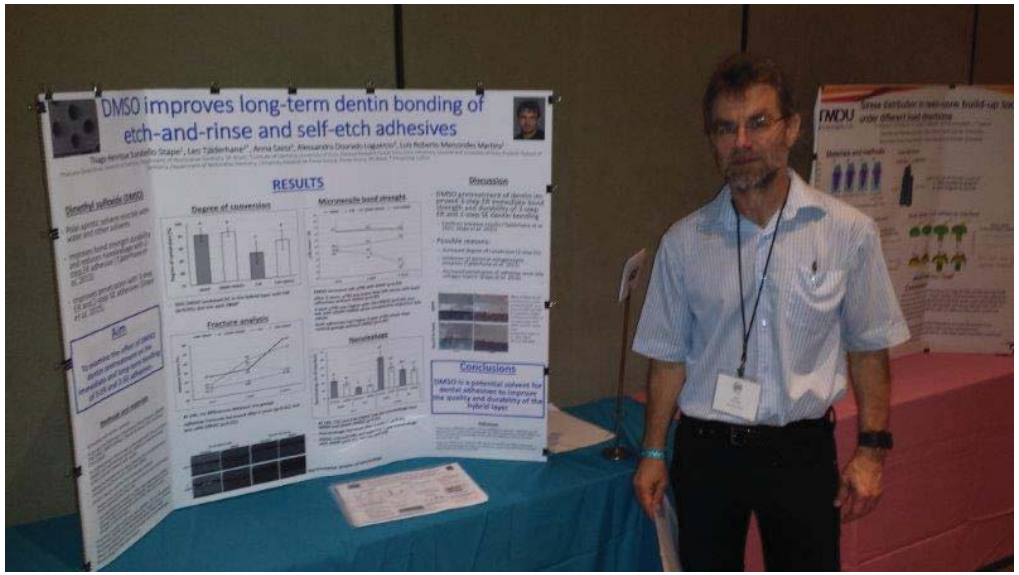

ADM/JSDMD Joint Award for Young Investigators
The Japanese Society for Dental Materials and Devices
Finalists
#24 Evaluation of a Fluoro-Alumino-Calcium Silicate-Based Desensitizer Using an Ultrasonic Device. R.Kawamoto*, H.Endo, T.Takamizawa, M.Miyazaki (Nihon University School of Dentistry, Japan)
#71 Antibacterial Effects of Self-Adhesive Resin Cements Containing Chlorhexidine. R. Kitagawa*, H. Kitagawa, N. Hirose, S. Yamaguchi, I.M. Mehdawi, M. Hayashi, S. Imazato (Osaka University, Japan; University of Benghazi, Libya)
#76 Evaluation of the Ion-Releasing Property of Tailored Sr-Ca-Containing Inorganic Cement. W. Kiba*, H. Imai, K. Kondoh, S. Imazato (Osaka University Graduate School of Dentistry; Osaka University Joining and Welding Institute, Japan).



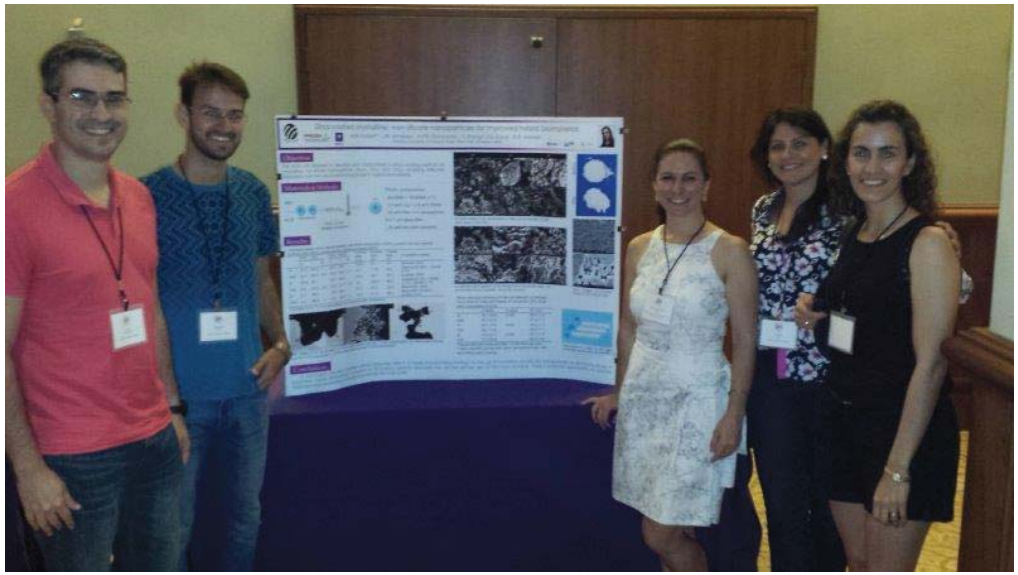




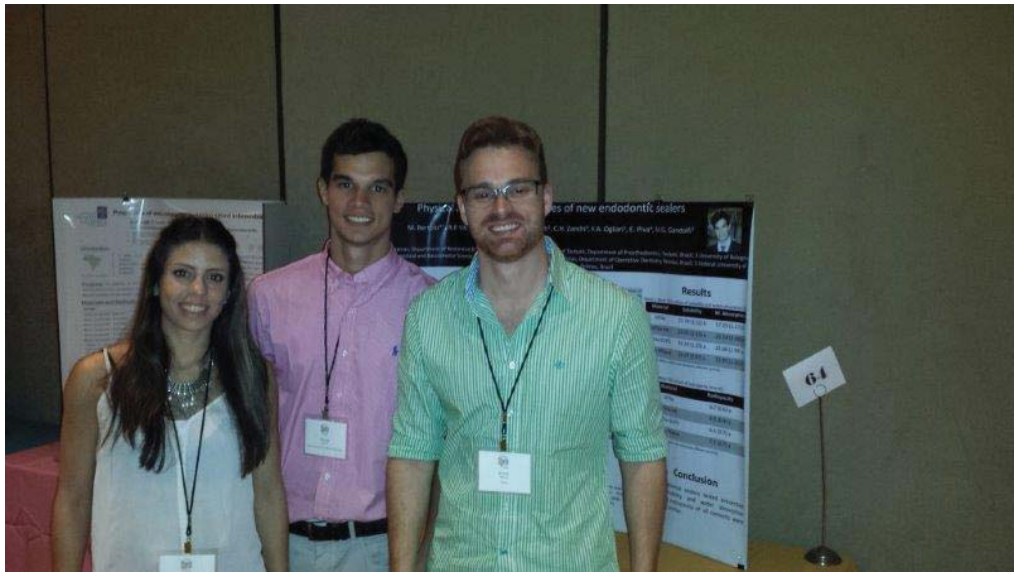

The Elastic-Plastic Nature of Fracture
in Dental Resin Composites
033
OBJECTIVES
MATERIALS & METHODS
RESULTS
CONCLUSION

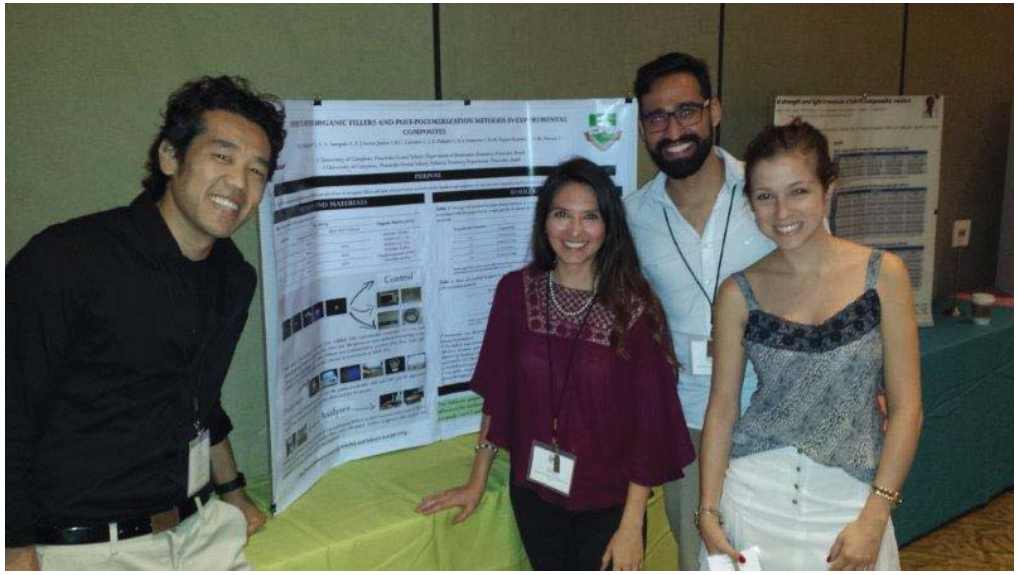

DMSO improves long-term dentin bonding of
etch-and-rinse and self-etch adhesives
RESULTS
Degree of conversion
Microtensile bond strength
Fracture analysis
Nanoleakage
Discussion
Conclusions

Results
Conclusion



BOND STRENGTH OF ETCH-AND-RINSE ADHESIVE SYSTEMS TO PLASMA-
OBJECTIVES
EXPERIMENTAL GROUPS
MATERIALS
RESULTS
ACKNOWLEDGEMENTS


Results
Conclusion



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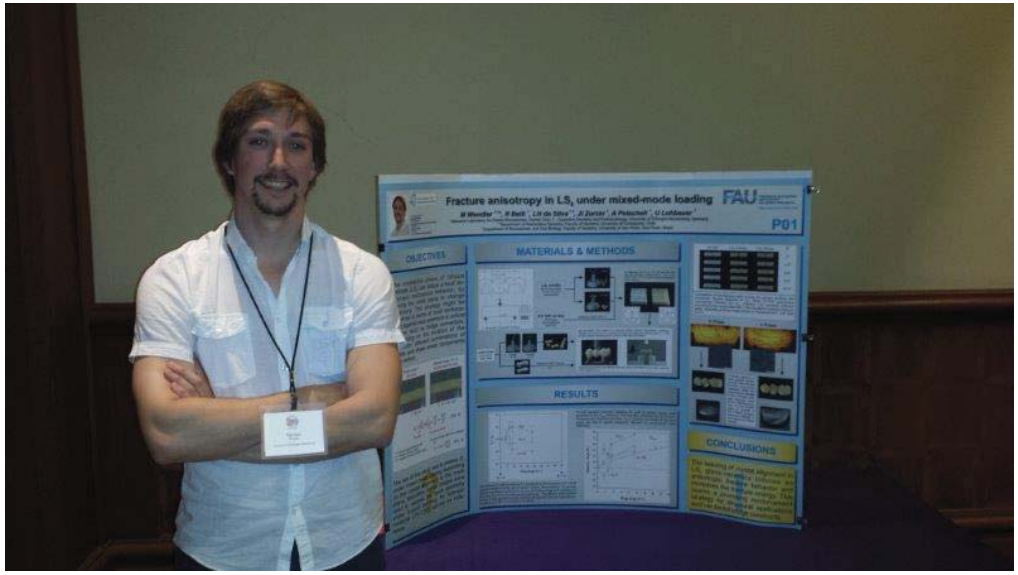
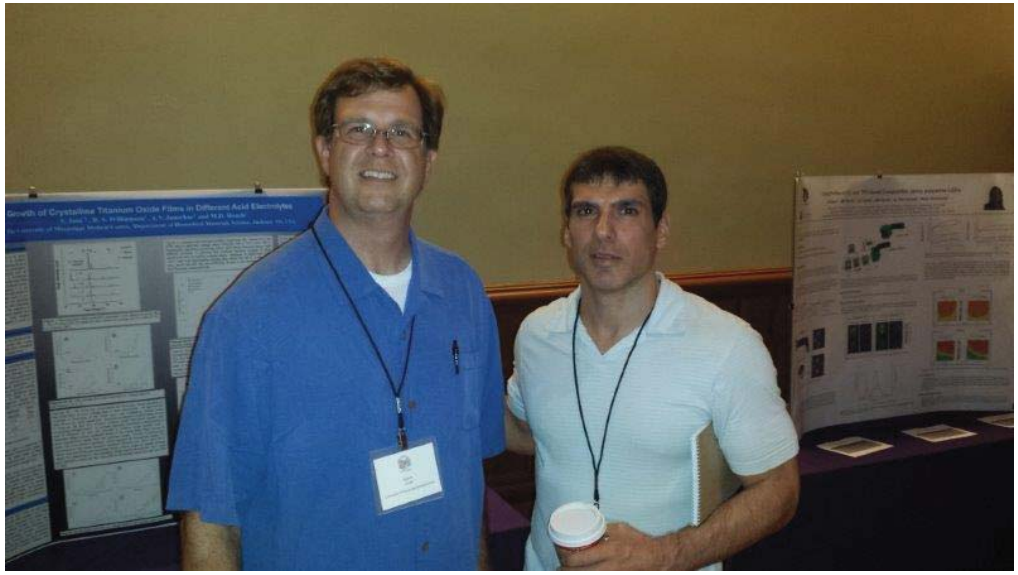
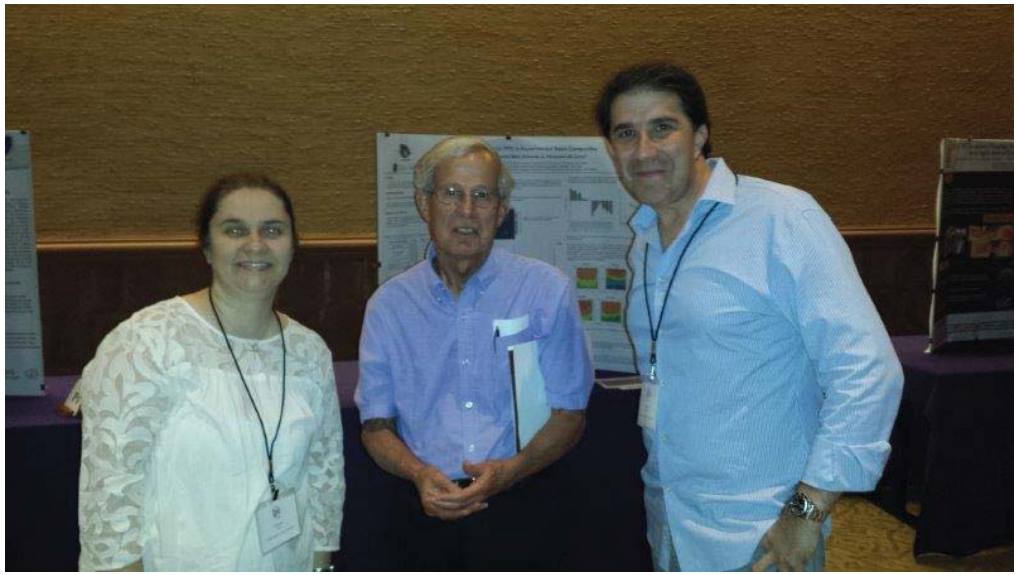
TMDU
Introduction

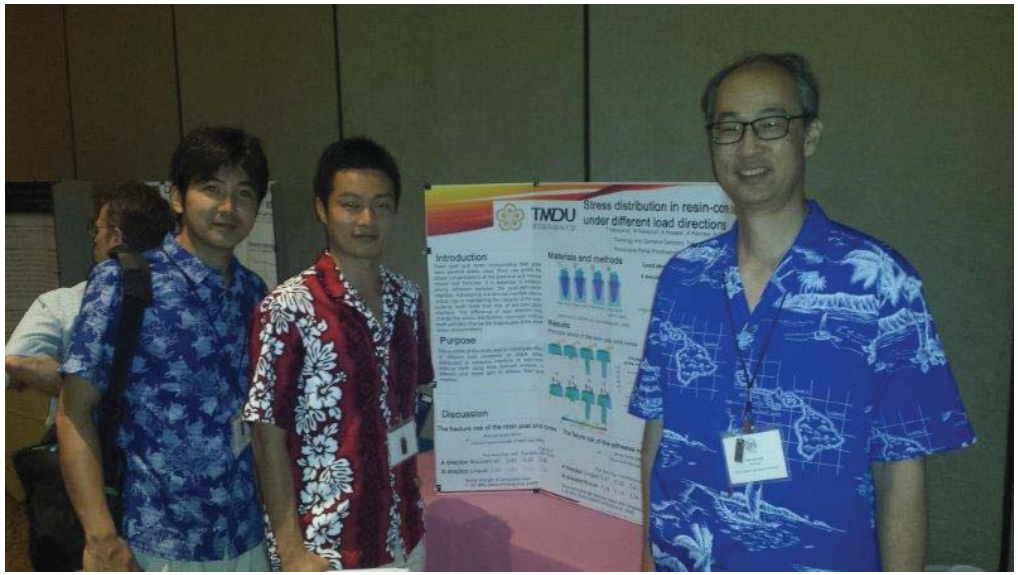
UCL


Fracture anisotropy in LS, under mixed-mode loading
FAU
P01
OBJECTIVES
MATERIALS & METHODS
RESULTS
CONCLUSIONS


Growth of Crystalline Titanium Oxide Films in Different Acid Electrolytes



P4


TMDU
Introduction
Materials and methods
Purpose
Results
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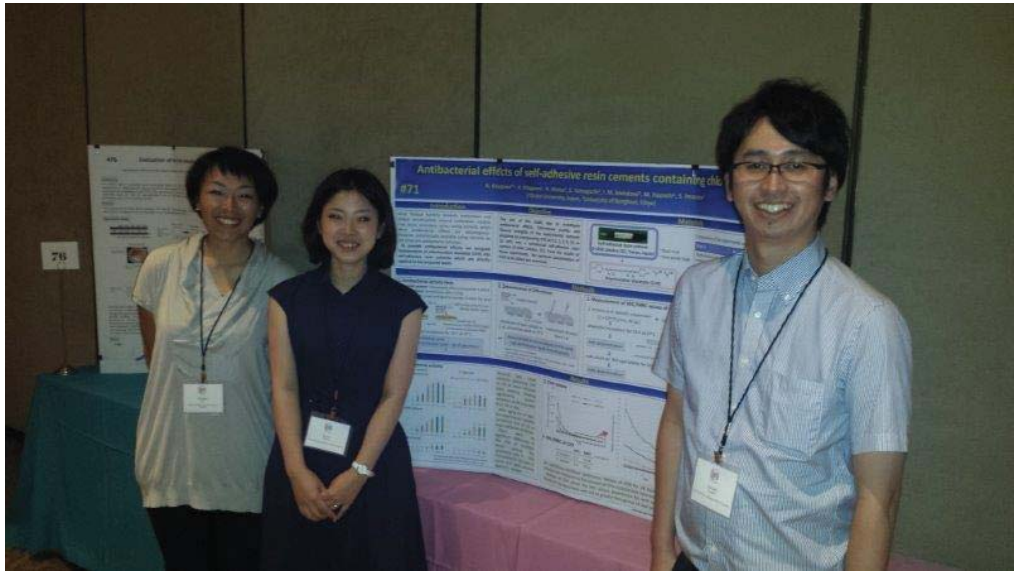
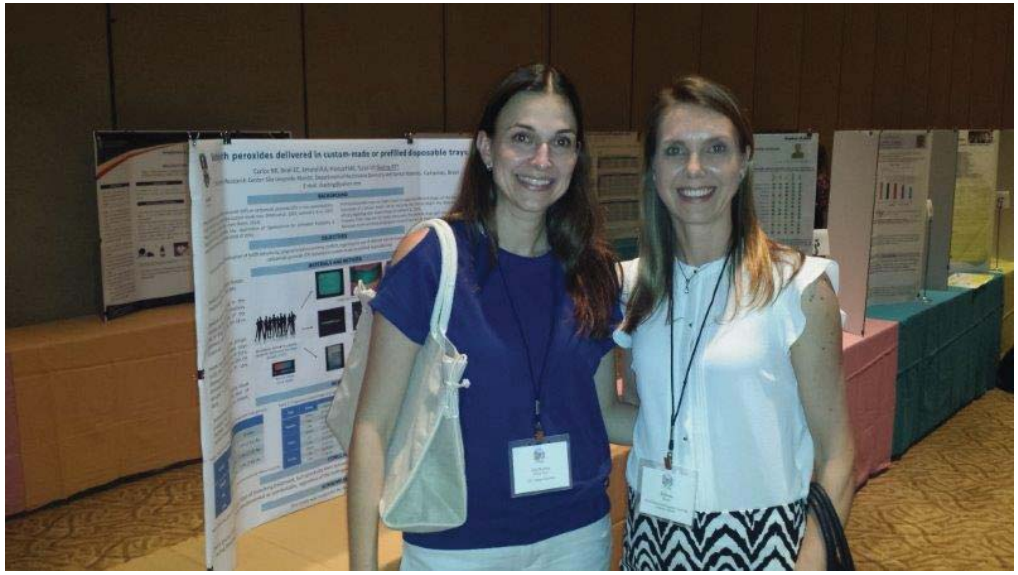

Antibacterial effects of self-adhesive resin cements containing chl
#71



hydroxyapatite nanorods improve the anti-caries
efficacy of enamel infiltrants