A. ADEA Section or SIG Name: Cariology Section

B. Submitted by: Margherita Fontana, Councilor

C. Email address for questions: mfontan@umich.edu

D. Section/SIG Activities
The Cariology Section continues to promote best evidence-based approaches for teaching and learning cariology in dental curricula. In the spirit of innovation, and to address the landscape of learning in cariology, at an international level, we invited an internationally known teacher and researcher in cariology, Kim Ekstrand, DDS, PhD to be the presenter at our annual 2013 section program. Dr. Ekstrand obtained his DDS in 1983, and his Ph.D in 1988 both at the Dental School University of Copenhagen, Denmark. He became Associate Professor in 1992, Head of Department of Cariology, Endodontics, Pediatric Dentistry and Clinical Genetics in 2009, and Vice Dean at the Dental School, University of Copenhagen in 2010. His reseach areas are caries diagnosis, pathology, non operative and risk related treatment. He has published more than 50 peer reviewed papers. He is a member of Organisation of Caries Research and core member in the ICDAS group. He has been invited as keynote speaker in more than 20 international conferences.

D.1) Annual Session Program-2013
Kim R. Ekstrand.
University of Copenhagen School of Dentistry.

Educational Programs:
Workshops/Seminars/Small Group Discussions
TLC-012. Learning Caries Management Decision-Making Through Proper Diagnosis and Risk Assessment
Tuesday, March 19, 2013 8:00 - 9:30 AM

Identifying the correct threshold between surgical and non-surgical intervention is crucial when learning to manage caries disease. This presentation reflected on the evidence and advantages of the Copenhagen model to teach and assess caries management decision-making. Caries is a biofilm-induced disease developing through periods of demineralization and remineralization. The lesion can arrest at any stage of development, but the probability is greatest in the early stages. Studies show a strong relationship between visible signs and lesion's histological depth. Studies also indicate that a fair relationship exists between radiographic radiolucencies and the histological depth of the lesion. Based on this, there are 3 subdiagnoses to “progressing lesions”: a) superficial (involving enamel and/or the outer 1/3 of dentin) b) medium (involving middle 1/3 of dentin) and c) profound (involving inner 1/3 of dentin). These subdiagnoses help drive the surgical and non-surgical decision-making. The presentation included discussion of cases. Feedback received by Dr. Ekstrand suggests the presentation was very well received by the audience.

D.2) Newsletter-Spring 2013 (Attached to this report)

D.3) COS funding: We applied and obtained COS funding for our 2013 annual program. We did this collaboratively with Operative Dentistry. We applied and received $2,305. At the end, with the help of the Operative Section we were able to cover expenses for our international speaker up to $4,100.

D.4) We have submitted an exciting program together with the Operative Section for the 2014 meeting. It is titled: Science of Learning in Clinical Decision-Making for Cariology and Restorative. This program will raise awareness of the importance of clinical decision-making and challenges as it relates to proper diagnosis and treatment planning of dental caries disease. An overview of critical-thinking strategies to enhance clinical decision-making in education and specific applications to cariology and restorative dentistry will be presented.
A panel discussion will address current challenges of integrating modern cariology in the restorative curriculum; find realistic strategies from the educators’-students’ perspective to improve learning in this area. We hope it will get accepted.

**E. Membership and Attendance**
The total attendance during the Member’s Forum was 38 people. 73 people signed in during our 2013 Annual Program, but we are sure there were more people who came in later and did not see the sign-up sheet, because we had people standing around the walls of the room. The total membership of our Cariology Section is 483 members.

**F. Meeting Minutes** (Attached)

**G. Additional Comments or Suggestions**
Our group was very enthusiastic about applying to the COS fund for 2014 to put together an exciting program to address the science of learning as it refers to critically thinking in cariology, bringing in experts from the medical and dental field together. Unfortunately, we were told we could not apply for 2014, as we had been previous recipients. We understand the idea of spreading COS funds amongst as many sections as possible, and we are extremely grateful for having been supported in the past. However, we think all sections should be able to apply at any time, and that the best be selected based on merit. Of those selected, if there is a section that has not received previous funding, then we agree this should be given priority.