

# The Future Starts Now

## SCIENTIFIC SYMPOSIUM

June 9<sup>th</sup> and 10<sup>th</sup>, 2017

University of Rochester School of Medicine & Dentistry



UR  
MEDICINE

EASTMAN  
INSTITUTE FOR ORAL HEALTH

## Letter from the Executive Committee

“The main object in mind when the Dispensary was founded was the care of teeth of children in Rochester and its vicinity ... I did not foresee that it might have an opportunity to become a part of a greater project for a higher grade of dental education than had ever been attempted.”



Yours very truly,  
George Eastman

In 1915, George Eastman knew the vital importance of good oral health, educating dental providers and the far-reaching value of research – that’s why he established what is now known as the Eastman Institute for Oral Health. We first opened our doors at the Rochester Dental Dispensary in 1917, and throughout the last 100 years, we have proudly continued Eastman’s original mission, becoming a world leader in education, research and clinical care.

We have planned numerous events in honor of this momentous occasion: a multidisciplinary scientific symposium entitled, “The Future Starts Now;” an international reception honoring our linkages with the international Eastman institutions; alumni reunions; and a Centennial Gala to culminate the celebration.

A special thank you to our Eastman Institute for Oral Health (EIOH) alumni who have traveled near and far to be part of our Centennial Celebration.

We are honored to have you join us as we celebrate and honor the past and look ahead toward the next 100 years!

Warm regards,

EIOH Centennial Executive Committee



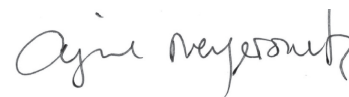
**Eli Eliav, D.M.D., M.Sc., Ph.D.**

*Professor and Director  
Eastman Institute for Oral Health  
Vice Dean for Oral Health  
University of Rochester  
School of Medicine & Dentistry*



**William R. Calnon, D.D.S.**

*Professor and Former Interim Director  
Eastman Institute for Oral Health  
Business Liaison  
President  
Eastman Dental Center Foundation*



**Cyril Meyerowitz, D.D.S., M.S.**

*Professor and Director Emeritus  
Eastman Institute for Oral Health  
Regional Director, Northeast Region  
National Dental PBRN  
University of Rochester Medical Center*

## FRIDAY, JUNE 9, 2017

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7:00 a.m.	Registration & Breakfast
8:00 a.m.	Introduction & Welcome
8:30 a.m.	Plenary Session: The Future Starts Now
10:30 a.m.	Break & Exhibits
11:15 a.m.	Parallel Sessions Dental Implants Caries Prevention & Community Health Oral Biosciences – Genomes and Microbiomes in Oral Disease Arts & Culture
1:15 p.m.	Lunch & Exhibits
2:30 p.m.	Parallel Sessions Esthetics Practice-based Research New Devices, Technology and Medications Financial & Legacy Planning for the Future
(All day)	AADR Poster Session
4:30 p.m.	Eastman International Reception
7:30 p.m.	Alumni Receptions

## SATURDAY, JUNE 10, 2017

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7:00 a.m.	Registration & Breakfast
8:00 a.m.	The Patient's Perspective Plenary Session
9:00 a.m.	Parallel Sessions Prosthodontics Topics in General Dentistry Part I: Implant vs. Root Canal: How Do We Make the Right Decision? Part II: Zirconia, Lithium Disilicate (e.max), PFM or Metal Restoration: How to Choose Material and Cement! Invited Guests of the Center for Oral Biology Orofacial Pain Oral and Maxillofacial Surgery
11:00 a.m.	Break & Exhibits
11:30 a.m.	Parallel Sessions Periodontics Orthodontics Pediatric Dentistry Oral Medicine Community Dentistry
(All day)	AADR Poster Session
1:30 p.m.	Adjourn
6:30 p.m.	Centennial Celebration Gala

# Event Information

## EVENT LOCATIONS

### Symposium:

University of Rochester School of Medicine & Dentistry  
415 Elmwood Avenue  
Rochester, NY 14642  
(585) 275-7666

### Gala:

Hyatt Regency Rochester  
125 East Main Street  
Rochester, NY 14604  
(585) 546-1234

Eastman Dental  
625 Elmwood Ave  
Rochester, NY 14620

## DIRECTIONS

(See maps on page 21)

### From Strong Memorial Hospital Main Lobby:

Walk past the Information Desk and Finger Lakes Roasters coffee cart. At the end of the hall (by Director's Office) to the right, follow the yellow ceiling tags down to the School of Medicine & Dentistry area.

### From the Arthur Kornberg Entrance

(415 Elmwood Avenue):

Enter the revolving doors into the Flaum Atrium. All symposium sessions will take place in and around the rooms surrounding the Flaum Atrium.

## SYMPOSIUM WI-FI

To access Wi-Fi during the symposium, select **UR\_MCguest** (no password is required).

## TRANSPORTATION

### Shuttles:

We have coordinated free transportation between most hotels and the symposium and gala venues. Please find the shuttle schedule in your hotel lobby.

### Parking at the University of Rochester Medical Center:

Parking is available in the adjacent lot near the entrance of the School of Medicine and Dentistry (MRB Parking Lot). When this lot is filled to capacity, attendees will be directed to park in the Strong Memorial Hospital Parking Garage located on Elmwood Avenue.

### Taxis:

Park Avenue Taxi | (585) 851-1888 | [parkavenuetaxi.com](http://parkavenuetaxi.com)  
Airport Taxi | (888) 659-9411 / (585) 957-2470 | [airportaccab.com](http://airportaccab.com)



FRIDAY, JUNE 9, 2017

**7:00 a.m. – 8:00 a.m.**

Flaum Atrium

G-9500

**Registration & Breakfast****8:00 a.m. – 8:30 a.m.**

Class of '62 Auditorium

G-9425

(Overflow to Ryan Case Method Room  
1-9576 & LeChase Assembly Hall G-9576)**Introduction & Welcome**

Eli Eliav, D.M.D., M.Sc., Ph.D.

**8:30 a.m. – 10:30 a.m.**

Class of '62 Auditorium

G-9425

(Overflow to Ryan Case Method Room  
1-9576 & LeChase Assembly Hall G-9576)**THE FUTURE STARTS NOW PLENARY SESSION***Chairs: Cyril Meyerowitz, D.D.S., M.S.; Eli Eliav, D.M.D., M.Sc., Ph.D.; Christopher H. Fox, D.M.D., D.M.Sc.***Keynote: “The Learning Health System: Transforming Individual and Population Health”***Charles P. Friedman, Ph.D.***“NIDCR: Guiding the Future of Oral Health Research and Innovation”***Martha J. Somerman, D.D.S., Ph.D.***“Preparing Graduates in 2017 for Practice through 2060”***Richard W. Valachovic, D.M.D., M.P.H.***“Academic Health Centers and Their Communities: The Time is Now!”***Nancy M. Bennett, M.D., M.S.*

This future oriented plenary session will introduce in the keynote, “The Learning Health System,” defined by the Institute of Medicine as a system where, “science, informatics, incentives and culture are aligned for continuous improvement and innovation, with best practices seamlessly embedded in the delivery process and new knowledge captured as an integral by-product of the delivery experience.” Presentations exploring the future of dental and craniofacial research, dental education and the role of academic institutions in community engagement will follow.

At the conclusion of this session, participants should be able to:

1. Understand what a learning health system is and how it may be introduced into academic dental institutions.
2. Appreciate the possibilities and direction oral health research and education will have in the future.
3. Be aware of the important role academic institutions have in community health now and into the future.

**10:30 a.m. – 11:15 a.m.**

Flaum Atrium

G-9500

**Break & Exhibits**

Class of '62  
Auditorium  
G-9425

## DENTAL IMPLANTS

*Chairs: Carlo Ercoli, D.D.S. & Jack Caton, D.D.S., M.S.*

### “Biological Consequences of Implant-Abutment Configurations – Short- and Long-Term Effects”

*David L. Cochran, D.D.S., M.S., Ph.D., M.M.Sci.*

### “Immediate vs. Delayed Socket Placement: What We Know, What We Think We Know and What We Don't Know”

*Dennis P. Tarnow, D.D.S.*

Emphasis to maintain crestal bone levels around the implant is paramount. Three major configurations of implants and their abutment connections are available today and each has predictable outcomes in regard to crestal bone levels around the implant. Dr. Cochran's presentation will review and discuss the consequences of these configurations.

Immediate placements of implants into extraction sockets is an exciting treatment alternative for our patients. However, there are many potential short- and, particularly, long-term risks about which the practitioner must be fully aware. Dr. Tarnow's presentation will focus on the potential problems and benefits, both clinically and biologically, when the choice of immediate socket placement is made for single and multiple sites.

At the conclusion of this session, participants should be able to:

1. Understand that there are predictable biological consequences to their choice of implant/abutment configuration.
2. Identify what type of healing takes place against the implant in immediate socket placement, if primary closure should be attempted and which graft material should be utilized.
3. Identify short- and long-term effects related to choice of implant/abutment interface.

Ryan Case  
Method Room  
1-9576

## CARIES PREVENTION & COMMUNITY HEALTH

*Chair: Dorota T. Kopycka-Kedzierawski, D.D.S., M.P.H.*

### “Caries Management by Risk Assessment – A Paradigm Shift”

*John D. B. Featherstone, M.Sc., Ph.D.*

### “New Technologies for Development of Anti-caries and Anti-plaque Therapeutics”

*Hyun Koo, D.D.S., M.S., Ph.D.*

### “Disruptive Innovations Necessary to Change How We Manage Dental Caries”

*Domenick T. Zero, D.D.S., M.S.*

### “Cariology: What's New Pussycat”

*Brian H. Clarkson, B.Ch.D., L.D.S., M.S., Ph.D.*

Dental caries is still prevalent in the U.S. and across the globe. Dental caries is a multifactorial disease and certain populations are at increased risk for the disease. The lectures will present an overview of emerging nanotech and biotech approaches to develop new anti-caries/anti-plaque therapies, present caries risk assessment protocols for caries management and innovations to change how dental caries is managed.

At the conclusion of this session, participants should be able to:

1. Be aware of innovations to change how dental caries is managed.
2. Understand nanotech and biotech approaches for anti-caries/anti-plaque therapies.
3. Be familiar with dental caries management by risk assessment.

Louise Slaughter  
Conference Room  
1-9555

## ORAL BIOSCIENCES – GENOMES AND MICROBIOMES IN ORAL DISEASE

*Chair: Robert G. Quivey, Jr., Ph.D.*

### “Why Some Oral Bacteria Refuse to Grow if They’re All Alone”

*Floyd E. Dewhirst, D.D.S., Ph.D.*

### “Multifunctional Properties of the Amylase-binding Protein A of Oral Streptococci”

*Frank A. Scannapieco, D.M.D., Ph.D.*

### “Internecine Biofilm Battles”

*Robert A. Burne, Ph.D.*

### “Periodontal and Associated Systemic Diseases; Microbiological and Inflammatory Disorders”

*Robert J. Genco, D.D.S., Ph.D.*

The Oral Biosciences presentations will provide the latest information regarding the use of genomics and metagenomics to study the initiation, progression and potentially the treatment of oral infectious diseases.

At the conclusion of this session, participants should be able to:

1. Describe what bacterial metagenomics is and how it can be used as a technique to study infectious disease.
2. Describe the types of organisms that inhabit the oral metagenome.
3. Gain insights into how metagenomics information will be used in the future to track and treat oral infectious disease.

LeChase Assembly  
Hall  
G-9576

## ARTS & CULTURE

*Chair: David Levy, D.M.D., M.S.*

This session will feature three exciting presenters whose topics will be outside the world of dentistry.

### “Winning Without Fighting; My Life with Cancer and Depression”

*Ms. Tiffany Staropoli*

Motivational speaker Tiffany Staropoli will discuss her personal experience with cancer and depression. Her presentation is inspirational and remarkably entertaining.

### “The Evolution of a Commissioned Piece of Art”

*Ms. Lynne Feldman*

Local Rochester artist Lynne Feldman is very accomplished, with paintings, prints, collages and illustrations in museums, galleries, and public spaces throughout the country. Her presentation will focus on the creative process, and especially on how she approaches a commissioned project such as her work for the EIOH Centennial.

### “It Was 50 Years Ago Today: Did Sgt. Pepper Really Teach the Band to Play?”

*John Covach, B.Mus., M.Mus., Ph.D.*

Professor John Covach is a musician, performer, educator, and author. He is currently the Director of the University of Rochester Institute for Popular Music, Director of the Institute for the Performing Arts, and Professor of Theory at the Eastman School of Music.

Fifty years ago, on June 1, 1967, the Beatles released Sgt. Pepper’s Lonely Hearts Club Band, considered by many scholars, critics, and fans to be one of the most important albums of the rock era. But was this album as influential as is often claimed? And was it really so much of a departure from the band’s previous work? This talk will explore the music and culture of the 60s, as well as the histories that have been written about it to determine: Did Sgt. Pepper really teach the band to play?

**1:15 p.m. – 2:30 p.m.**    **Lunch & Exhibits**  
Flaum Atrium  
G-9500  
Forbes Mezzanine

Sponsored by Colgate Palmolive Co.

**2:30 p.m. – 4:30 p.m.**    **Parallel Sessions**

Class of '62  
Auditorium  
G-9425

**ESTHETICS**

*Chair: Hans Malmstrom, D.D.S.*

**“Direct Resin Composite Restorations – Present and Future”**

*Marcos Vargas, D.D.S., M.S.*

**“Relation Among Prosthodontic Esthetic Materials, Type of Tooth Preparations, Analog and Digital Workflows and Periodontal Health”**

*Marco Ferrari, M.D., D.D.S., Ph.D.*

Anterior and posterior resin composite restorations are widely accepted and used in dentistry nowadays. This past decade has seen the increase in direct resin composite restorations and the decline of amalgam due to environmental and esthetic factors, as well as conservation of tooth structure. Dr. Vargas's presentation will discuss the clinical performance, indications, contraindications, longevity and mechanism of failure of resin composites, with the goal of improving their success.

In the last few years, new composite, bonding and ceramic materials, clinical and technical workflows, intraoral and extraoral 3D capture devices and modifications of established prosthodontic preparation designs were introduced. The mechanical properties of the new ceramic and composite materials, when used with digital workflows, have also affected long-established clinical guidelines. Dr. Ferrari's presentation will highlight the relationship and interplay of new esthetic materials, digital workflows, preparations designs, techniques for bonding and periodontal health in order to achieve a durable esthetic result.

At the conclusion of this session, participants should be able to:

1. Have an understanding of the different materials and indications in esthetic dentistry.
2. Decide when to use composite and when to use ceramic materials.
3. Understand how the use of digital workflow can improve outcome.





2:30 p.m. – 4:30 p.m.

Parallel Sessions, continued.

LeChase  
Assembly Hall  
G-9576

### **PRACTICE-BASED RESEARCH**

*Chairs: Cyril Meyerowitz, D.D.S., M.S. & Dorota T. Kopycka-Kedzierawski, D.D.S., M.P.H.*

#### **“The U.S. National Dental Practice-Based Research Network: A National Institute for Health Investment in Translating Science to Practice”**

*Cyril Meyerowitz, D.D.S., M.S.*

#### **“Management of Dentin Hypersensitivity by National Dental PBRN Practitioners”**

*Dorota T. Kopycka-Kedzierawski, D.D.S., M.P.H.*

#### **“Resolving Uncertainty in Suspicious Occlusal Lesions through Practice-based Research”**

*Sonia K. Makbija, D.D.S., M.P.H.*

#### **“The Common Practices of Head and Neck Examinations in U.S. Dental Offices”**

*Walter J. Psoter, D.D.S., Ph.D.*

National Dental PBRN is a consortium of dental practices and organizations that participate in clinical research studies and comprises six regions across the U.S. The lectures will present an overview of the National Dental PBRN operation and structure, describe the results of two clinical studies (Management of Dentin Hypersensitivity and Suspicious Occlusal Caries Lesions) that were conducted in the network and introduce a new study on Oral Cancer Screening that will be launched in the network in the summer of 2017.

At the conclusion of this session, participants should be able to:

1. Be familiar with the National Dental PBRN and the new study that will be launched on oral cancer screening.
2. Know how dentin hypersensitivity is treated across the U.S. and what treatment modalities work the best.
3. Be aware of how suspicious caries lesions are viewed and treated by U.S. clinicians.

Ryan Case  
Method Room  
1-9576

### **NEW DEVICES, TECHNOLOGY AND MEDICATIONS**

*Chair: Sharon Elad, D.M.D., M.Sc.*

#### **“The Use of Caries Detection Devices”**

*Domenick T. Zero, D.D.S., M.S.*

#### **“New Diagnostic Technologies”**

*Craig S. Miller, D.M.D., M.S.*

#### **“A Smart Splint”**

*Brian O’Connell, B.D.S., Ph.D., F.A.C.P., F.T.C.D.*

#### **“Appropriate and Inappropriate Use of Medications in Dentistry”**

*Craig S. Miller, D.M.D., M.S.*

#### **“Critical Aspects of Dentomaxillofacial Imaging and Interpretation with Conebeam CT”**

*Alan Lurie, D.D.S., Ph.D.*

This fascinating scientific session will touch on a variety of devices, medications and technologies used in dentistry. The versatile program presents recent advances in diagnostic and therapeutic modalities. Experts will discuss innovations in caries diagnosis, approach to diagnostics, bruxism, pharmacology and oral and maxillofacial imaging sciences.

At the conclusion of this session, participants should be able to:

1. Better understand perspectives on the novel diagnostic modalities.
2. Be aware of pitfalls in prescribing medications in the dental office.
3. Appreciate the value of an innovative splint in monitoring of bruxism.

2:30 p.m. – 4:30 p.m.

**Parallel Sessions, continued.**

Louise Slaughter  
Conference Room  
1-9555

**FINANCIAL & LEGACY PLANNING FOR THE FUTURE**

*Chair: Mr. Bryan D. Winters*

**“Financial & Legacy Planning for the Future: An Overview of Income, Estate Tax and Planning Strategies”**

*Mark E. Kluge, C.L.U., C.A.P., A.E.P. & Sherman F. Levey, Esq.*

Mark Kluge and Sherman Levey will provide an overview of various charitable giving techniques with their estate and income tax benefits, ways to leverage planned gifts and a brief update on the current tax legislative environment. Foreign nationals face unique estate and income tax challenges and legacy planning opportunities that will also be addressed with plenty of time for questions and answers. There will be a 15-minute break in the middle of the presentation.

**All Day**  
Flaum Atrium  
G-9500

**AADR Poster Session**

**4:30 p.m. - 7:00 p.m.**  
Flaum Atrium  
G-9500

**Eastman International Reception**  
Sponsored by Colgate Palmolive Co.

**Times and  
Locations Vary**

**Alumni Reunions**



## SATURDAY, JUNE 10, 2017

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**7:00 a.m. – 8:00 a.m.**

Flaum Atrium  
G-9500

### Registration & Breakfast

**8:00 a.m. – 9:00 a.m.**

Class of '62  
Auditorium  
G-9425  
(overflow to Ryan Case Method  
Room 1-9576)

### THE PATIENT'S PERSPECTIVE PLENARY SESSION

*Chair: Cyril Meyerowitz, D.D.S., M.S.*

#### “Tongue-Tied: A Story NOT Silenced by Oral Cancer”

*Ms. Eva Grayzel*

#### “Dental Leadership in the Interdisciplinary Care of Patients with Intellectual Disabilities”

*Steve Perlman, D.D.S., M.Sc.D., D.H.L. (Hon)*

*Matthew Holder, M.D., M.B.A.*

This session will provide the patient's perspective of dealing with cancer through a personal testimonial. The second part of the session will give a view of oral health care focusing on the perspective of a person with intellectual and developmental disabilities (IDD) and the need for dental leadership in this area.

At the conclusion of this session, participants should be able to:

1. Appreciate the patient's perspective of dealing with the health system's provision of cancer care.
2. Understand the need for sensitivity to the patient with IDD.
3. Recognize the need for dental leadership in the care of individuals with IDD.

**9:00 a.m. – 11:00 a.m.**

### Parallel Sessions

Ryan Case  
Method Room  
1-9576

### PROSTHODONTICS

*Chair: Carlo Ercoli, D.D.S.*

#### “Redesigning the Poorly Planned Implant Supported Reconstruction”

*Ricardo Mitrani, D.D.S., M.S.D.*

#### “From Non-Invasive to Digital: 40 Years of Prosthodontics”

*Carlo P. Marinello, D.D.S., M.S., Ph.D.*

#### “Interdisciplinary Treatment Management in the Prosthodontic Patient”

*Carlo E. Poggio, D.D.S., M.S.D., Ph.D.*

The evolution of non-invasive prosthodontic strategies, digital treatment planning, implant surgery and interdisciplinary care will be reviewed with an emphasis on evidence-based approaches. Various new digital workflows including fixed and removable prosthodontics, as well as the utilization of new ceramic materials, will be discussed in the context of digital technology.

At the conclusion of this session, participants should be able to:

1. Provide an outlook to the unlimited future potential of prosthodontics.
2. Discuss use of digital technology in prosthodontics and material choices.
3. Provide relevant treatment concepts for complex case management.

9:00 a.m. – 11:00 a.m. Parallel Sessions, continued.

Class of '62  
Auditorium  
G-9425

**TOPICS IN GENERAL DENTISTRY, PART I:  
IMPLANT VERSUS ROOT CANAL: HOW DO WE MAKE THE RIGHT DECISION?**

*Chair: Hans Malmstrom, D.D.S.*

**“To Save or to Replace? The Case for Dental Implants”**

*Robert Durand, D.M.D., M.S., F.R.C.D.(C)*

**“Peace & Love: Endodontics, More than ‘Just’ a Root Canal”**

*Peter Tawil, D.D.S., M.S.*

**“Implant the Right Decision”**

*Georgios Romanos, D.D.S., Ph.D., Prof. Dr. med. dent.*

**“3-D Imaging in Dentistry: A New Era in Diagnosis and Treatment”**

*Mohamed I. Fayad, D.D.S., M.S., Ph.D.*

**Panel**

*Filippo Cangini, D.D.S., M.S.*

*Yu Mao, D.D.S., M.S., Ph.D.*

*Luis C. Paras, D.D.S.*

In this session, the speakers will discuss the dilemma we often face regarding extraction of a tooth and replacement with an implant versus retention of the tooth utilizing endodontic therapy. Two periodontists (Drs. Durand and Romanos) will present indications for implants and two endodontists (Drs. Tawil and Fayad) will present the argument for retaining the tooth with root canal therapy and possibly crown placement. By the end of the presentation, the attendees should have a better understanding of which form of treatment is most appropriate in a given situation.

At the conclusion of this session, participants should be able to:

1. Understand the indications for implant therapy versus root canal therapy.
2. Utilize diagnostic and prognostic skills in treatment planning.
3. Appreciate when a tooth is not restorable.



9:00 a.m. – 11:00 a.m.

Parallel Sessions, continued.

Class of '62  
Auditorium  
G-9425

**TOPICS IN GENERAL DENTISTRY, PART II:  
ZIRCONIA, LITHIUM DISILICATE (E.MAX), PFM OR METAL RESTORATION:  
HOW TO CHOOSE METAL AND CEMENT!**

*Chair: Hans Malmstrom, D.D.S.*

**“Full Mouth Reconstruction Using CAD CAM Lithium Disilicate Restorations”**

*C. Edgar Davila, D.D.S., M.S., C.D.T.*

**“Not All Zirconia is Created Equal, What Gives?”**

*Marcos Vargas, D.D.S., M.S.*

**“Decoding Restorative Material Selection for Complex Treatments”**

*Amirali Zandinejad, D.D.S., M.Sc.*

**“Cementation of All Ceramic Restorations Made Easy”**

*Ram M. Vaderbogli, B.D.S., M.S.*

**“Cementation in Implant Dentistry: Problems and Solutions”**

*Alfonso Pineyro, D.D.S.*

In this session, the indications, advantages and disadvantages of the different materials for crown restorations will be discussed. Preparation design and cementation methods will be reviewed. Each presenter will present an argument for one material and the appropriate cement or cements that should be utilized.

At the conclusion of this session, participants should be able to:

1. Know the indications for the different crown materials.
2. Know which cement is indicated for use with each specific material and in specific clinical settings.
3. Design and create the best preparation for each type of crown.

Natapow  
Conference Room  
1-9545

**INVITED GUESTS OF THE CENTER FOR ORAL BIOLOGY**

*Chair: Robert G. Quivey, Jr., Ph.D.*

**“Genes, Circuits and Behavior: Inside the Mind of a Worm”**

*Douglas Portman, Ph.D.*

**“Molecular Genetics Revolution: Promise Fulfilled?”**

*Charles A. Thornton, M.D.*

**“Empowering Technologies Around the World: Improving Equity, Improving Health”**

*Timothy D. Dye, Ph.D.*

Our three guests represent some of the outstanding science that is being conducted at the University of Rochester School of Medicine and Dentistry. Dr. Portman will describe his work on the neural wiring diagram of an entire organism and how that gives us insights into the human nervous system and behavior. Dr. Thornton's presentation will focus on the development of molecular medicine and its potential uses. Lastly, Dr. Dye will describe the use of analytical tools to improve health and health outcomes, globally.

At the conclusion of this session, participants should be able to:

1. Describe what is currently meant by “molecular medicine” and how it is developing as therapeutic approaches of the future.
2. Describe what “Big Data” is, and how it is being used to improve health outcomes, on the global scale.
3. Gain insights into the nature of neural networks in a model organism – the worm, and how that information can inform us about human nervous systems and behavior.

9:00 a.m. – 11:00 a.m.

**Parallel Sessions, continued.**

Louise Slaughter  
Conference Room  
1-9555

**ORAL AND MAXILLOFACIAL SURGERY**

*Chair: Antonia Kolokythas, D.D.S., M.Sc., F.A.C.S.*

**“The Role of Virtual Surgical Planning in Orthognathic and Craniofacial Surgery”**

*Stephanie J. Drew, D.M.D., F.A.C.S.*

**“Contemporary Treatment for Temporomandibular Joint Disease”**

*John S. Vorrasi, D.D.S.*

**“The Role of Virtual Surgical Planning in Maxillofacial Pathology Treatment and Reconstruction”**

*Antonia Kolokythas, D.D.S., M.Sc., F.A.C.S.*

During this session, the presenters will discuss the current technological advances, specifically virtual and surgical planning, for correction of craniofacial deformities, temporomandibular disorders and maxillofacial reconstruction. They will further discuss the advantages and limitations of the various technological advances in maxillofacial surgery. The presenters will share their personal experience with the use of virtual surgical planning in their fields of expertise.

At the conclusion of this session, participants should be able to:

1. Discuss the advantages and limitations of virtual planning for orthognathic surgery, temporomandibular disorders and maxillofacial reconstruction.
2. Discuss the various applications of virtual surgical planning in the treatment of craniofacial deformities, temporomandibular disorders and maxillofacial pathology-reconstruction.
3. Discuss the benefits of virtual planning for orthognathic surgery, temporomandibular disorders and maxillofacial reconstruction.

LeChase Assembly  
Hall  
G-9576

**OROFACIAL PAIN**

*Chairs: Ross H. Tallents, D.D.S. & Eli Eliav, D.M.D., M.Sc., Ph.D.*

**“Chronic Orofacial Pain, Cognitive-Emotional-Motivational Considerations, It’s Not Pain Unless the Brain Says It Is”**

*Gary M. Heir, D.M.D.*

**“Orofacial Central Sensitivity Syndromes”**

*José L. de la Hoz, M.D., D.M.D., M.S.*

**“Mandibular Growth: Problems in Orthodontics, Orthognathic Surgery and TMJ Disorders”**

*Ross H. Tallents, D.D.S.*

This session will focus on different aspects of evaluation, diagnosis, treatment and rehabilitation of orofacial pain disorders, such as Temporomandibular joint pathologies, and the role of the central and peripheral nervous systems in various orofacial pain syndromes. Challenging cases and recent research findings will be presented, as well as useful clinical tools.

At the conclusion of this session, participants should be able to:

1. Be familiar with the various Temporomandibular pathologies, diagnosis and treatments.
2. Understand the need for multimodal therapeutic management by means of an interdisciplinary approach, including patient acceptance and commitment for the correct treatment of these pathologies.
3. Understand the difference between nociception and pain – participants will receive an introduction to the Descending Pain Modulating System and learn new avenues of related treatment.

11:00 a.m. – 11:30 a.m.  
Flaum Atrium, G-9500

**Break & Exhibits**

11:30 a.m. – 1:30 p.m. **Parallel Sessions**

Class of '62 Auditorium  
G-9425

## **PERIODONTICS**

*Chair: Jack Caton, D.D.S., M.S.*

### **“Changing the Prognosis of Severely Compromised Teeth with Periodontal Regeneration”**

*Pierpaolo (Sandro) Cortellini, M.D., D.D.S.*

This case-based lecture will describe different approaches for changing the prognosis of compromised natural teeth to long-term favorable. Attendees will learn how Dr. Cortellini determines the correct diagnosis and treatment plan to maximize the quantity and predictability of periodontal regeneration.

At the conclusion of this session, participants should be able to:

1. Be familiar with the clinical approach to treatment of hopeless teeth as an alternative to tooth extraction and replacement.
2. Understand modern minimally invasive surgical approaches in intrabony defects to increase efficacy and reduce morbidity.
3. Know the proper use of biomaterials to increase the regenerative potential.

Ryan Case Method  
Room  
1-9576

## **ORTHODONTICS**

*Chair: P. Emile Rossouw, B.Sc., B.Ch.D. (Dent), B.Ch.D.-Hons (Child Dent), M.Ch.D. (Ortho), Ph.D., F.R.C.D. (C)*

### **“Can Orthodontic Relapse be Blamed on the TMJ?”**

*Larry Wolford, D.M.D.*

### **“The Experts of the Future”**

*Rolf G. Bebrents, D.D.S., M.S., Ph.D., Ph.D. (Hon)*

The session content will be two-fold: First, is orthodontic relapse. It is an important aspect to consider during planning, during treatment and following treatment. Thus, can the relapse be blamed on the TMJ? Secondly, such and other investigations necessitate a look at “the expert of the future.”

At the conclusion of this session, participants should be able to:

1. Understand the impact of orthognathic surgery on the TMJ and orthodontic treatment.
2. Appreciate the role of the TMJ in the maintenance of the occlusion.
3. Have a glimpse into the future of orthodontics with a new generation at the helm.



11:30 a.m. – 1:30 p.m.

**Parallel Sessions, continued.**

Louise Slaughter  
Conference Room  
1-9555

**PEDIATRIC DENTISTRY**

*Chair: Sean McLaren, D.D.S.*

**“Why Do We Care About Children: John Greenwood to George Eastman”**

*Martin Curzon, B.D.S., M.S., Ph.D., F.R.C.D.(Can), F.D.S.R.C.S.(Eng), D.Sc.*

**“Molar Incisor Hypomineralization: Management Dilemmas”**

*Bernadette Drummond, B.D.S., M.S., Ph.D., F.R.A.C.D.S.*

**“What’s in a Smile”**

*Anne C. O’Connell, B.A., B.Dent., M.S.*

**“International Care for Children with Recessive Dystrophic Epidermolysis Bullosa: A Pediatric Dentist’s Perspective”**

*Jeffrey Karp, D.M.D., M.S.*

The attendee will understand methods used to treat children and become familiar with some common pediatric dental issues and various treatment strategies for certain issues. In addition, the attendee will learn about a new program that has had initial success in the treatment of underserved children.

At the conclusion of this session, participants should be able to:

1. Describe how and why children are different from adults.
2. Describe molar incisor hypoplasia (MIH) and various treatment techniques.
3. Describe a successful outreach program for underserved children.

Natapow  
Conference  
Room  
1-9545

**ORAL MEDICINE**

*Chair: Sharon Elad, D.M.D., M.Sc.*

**“Oral Medicine in Eastman and the University of Rochester”**

*Sharon Elad, D.M.D., M.Sc.*

**“Voicing the Long-term Effects of Treatment for Late-Stage Oral Cancer”**

*Ms. Eva Grayzel*

**“Challenges for Oral Medicine in the 21st Century”**

*Stephen Porter, B.Sc., B.D.S., M.B., Ch.B., Ph.D., M.D., F.D.S. R.C.S.(Eng), F.D.S. R.C.S.(Edin), F.H.E.A.*

**“Front Line of Viral Infections Research”**

*Craig S. Miller, D.M.D., M.S.*

**“Oral Medicine in the U.S.”**

*Craig S. Miller, D.M.D., M.S.*

This intriguing scientific program will allow the audience to taste the world of Oral Medicine. From clinical advances and cutting-edge research, from the expert’s view and from the patient’s view, from an Eastman’s institutional view and from a U.S. national view. The session will combine interesting slideshows along with an emotional life story.

At the conclusion of this session, participants should be able to:

1. Better understand the diagnosis of oral manifestations of systemic diseases and clinical management of oral lesions.
2. Appreciate the patient’s view/perspective when diagnosed and treated for oral cancer.
3. Have a greater understanding of cutting-edge research of viral infections affecting the oral tissues.



**11:30 a.m. – 1:30 p.m.**

**Parallel Sessions, continued.**

LeChase  
Assembly Hall  
G-9576

**COMMUNITY DENTISTRY**

*Chair: Sangeeta Gajendra, D.D.S., M.P.H., M.S.*

**“Community Dentistry: A 100 Year Legacy of Caring, Commitment, Learning and Discovery”**

*Ronald J. Billings, D.D.S., M.S.D.*

**“Basil G. Bibby’s Role in Making Eastman Dental Center an International Post-Graduate Institution”**

*Buddhi Shrestha, D.D.S., M.S., Ph.D.*

**“The Future is Now: Innovative Approaches for Oral Health Care Integration and Health Equity in Vulnerable Populations”**

*Dionne J. Richardson, D.D.S., M.P.H.*

**“Legislation Which Has Impacted Community Dentistry”**

*Dolores A. Cottrell, D.D.S., M.S.H.A.*

**“Community-based Oral Health Initiatives”**

*A. Dirk Hightower, Ph.D.*

Community Dentistry has played a vital role in improving the oral health of both children and adults in and around Rochester, NY. This session will highlight features of the program’s involvement in the past and present and how we can continue to make an impact in the community.

At the conclusion of this session, participants should be able to:

1. Understand the role of Community Dentistry in improving the oral health of children and adults in the Greater Rochester area.
2. Describe the role of public health, including legislation, in promoting Community Dentistry.
3. Understand the New York State Department of Health and Community-based Oral Health Initiatives.

**All Morning**  
Flaum Atrium  
G-9500

**AADR Poster Session**

**1:30 p.m.**

**Adjourn Scientific Symposium**

**6:30 p.m.**  
Hyatt Regency  
Rochester

**Centennial Celebration Gala**

# Symposium Faculty & Speakers

**Rolf G. Behrents, D.D.S., M.S., Ph.D., Ph.D. (Hon)**

Johnston Professor of Orthodontics and Orthodontic Program Director  
Saint Louis University  
Editor-in-Chief, AJO-DO

**Nancy M. Bennett, M.D., M.S.**

Professor of Medicine and Public Health Sciences  
Director, Center for Community Health  
Co-director, Clinical and Translational Science Institute  
University of Rochester School of Medicine and Dentistry

**Ronald J. Billings, D.D.S., M.S.D.**

Professor and Director Emeritus  
Eastman Institute for Oral Health

**Robert A. Burne, Ph.D.**

Distinguished Professor and Chair, Department of Oral Biology  
Associate Dean for Research  
University of Florida College of Dentistry

**William R. Calnon, D.D.S.**

Professor and Former Interim Director, Eastman Institute for Oral Health  
President, Eastman Dental Foundation Board  
President and Interim Executive Director, ADA Foundation

**Filippo Cangini, D.D.S., M.S.**

Pleasant Hill Smiles Dentistry

**Jack Caton, D.D.S., M.S.**

Professor, Program Director and Chair, Division of Periodontology  
Eastman Institute for Oral Health

**Brian H. Clarkson, B.Ch.D., L.D.S., M.S., Ph.D.**

Professor, Department of Cariology, Restorative Sciences and Endodontics  
University of Michigan School of Dentistry

**David L. Cochran, D.D.S., M.S., Ph.D., M.M.Sci.**

Professor and Chairman, Department of Periodontics  
University of Texas Health Science Center, San Antonio, School of Dentistry

**Pierpaolo (Sandro) Cortellini, M.D., D.D.S.**

ERGOPerio

**Dolores A. Cottrell, D.D.S., M.S.H.A.**

Executive Secretary  
N.Y.S. Boards for Dentistry, Optometry and Chiropractic

**John Covach, B.Mus., M.Mus., Ph.D.**

Professor of Music Theory  
Director, Institute for Popular Music  
Mercer Brugler Distinguished Teaching Professor and Chair, The College  
Department of Music  
Eastman School of Music

**Martin Curzon, B.D.S., M.S., Ph.D., F.R.C.D.(C), F.D.S.**

**R.C.S.(Eng), D.Sc.**  
Emeritus Professor of Child Dental Health

**C. Edgar Davila, D.D.S., M.S., C.D.T.**

Associate Clinical Professor, Graduate Prosthodontics  
University of Florida College of Dentistry

**José L. de la Hoz, M.D., D.D.S., M.S.**

Professor and Coordinator, Master Program in Temporomandibular Disorders  
and Orofacial Pain  
School of Medicine, Universidad San Pablo CEU

**Floyd E. Dewhirst, D.D.S., Ph.D.**

Senior Member of the Staff, Department of Microbiology  
The Forsyth Institute

**Stephanie J. Drew, D.M.D., F.A.C.S.**

Assistant Clinical Professor  
Hofstra School of Medicine  
Stony Brook School of Dental Medicine

**Bernadette Drummond, B.D.S., M.S., Ph.D., F.R.A.C.D.S.**

Professor of Paediatric Dentistry  
University of Otago

**Robert Durand, D.M.D., M.S., F.R.C.D.(C)**

Diplomate, American Board of Periodontology  
Associate Professor and Co-chief, Section of Preventive Dentistry  
and Periodontology,  
Faculty of Dental Medicine, Université de Montréal

**Timothy D. Dye, Ph.D.**

Professor and Associate Chair for Research, Department of Obstetrics and  
Gynecology  
University of Rochester Medical Center

**Sharon Elad, D.M.D., M.Sc.**

Professor and Chair, Department of Oral Medicine  
Clinical Chief, Hospital General Dentistry  
Eastman Institute for Oral Health

**Eli Eliav, D.M.D., M.Sc., Ph.D.**

Professor and Director, Eastman Institute for Oral Health  
Vice Dean for Oral Health, University of Rochester School of Medicine  
& Dentistry

**Carlo Ercoli, D.D.S.**

Professor, Program Director and Chair, Division of Prosthodontics  
Eastman Institute for Oral Health

**Mohamed I. Fayad, D.D.S., M.S., Ph.D.**

Clinical Associate Professor  
University of Illinois at Chicago College of Dentistry

**John D. B. Featherstone, M.Sc., Ph.D.**

Dean and Distinguished Professor  
University of California, San Francisco School of Dentistry

**Ms. Lynne Feldman**

Artist

**Marco Ferrari, M.D., D.D.S., Ph.D.**

Professor of Restorative Dentistry  
Dean, School of Dental Medicine  
Chair, Department of Prosthodontics and Dental Materials  
Università di Siena

**Christopher H. Fox, D.M.D., D.M.Sc.**

Executive Director  
International & American Associations for Dental Research (IADR/AADR)

**Charles P. Friedman, Ph.D.**

Josiah Macy Jr. Professor of Medical Education  
Chair, Department of Learning Health Sciences  
Professor of Information and Public Health  
University of Michigan Medical School

**Sangeeta Gajendra, D.D.S., M.P.H., M.S.**

Associate Professor and Clinical Chief, Department of Community Dentistry  
Eastman Institute for Oral Health

**Robert J. Genco, D.D.S., Ph.D.**

SUNY Distinguished Professor of Oral Biology and Microbiology  
and Immunology  
Director, UB Microbiome Center  
University at Buffalo School

**Ms. Eva Grayzel**

Motivational Speaker  
Six-Step Screening

**Gary M. Heir, D.M.D.**

Clinical Professor, Program and Clinical Director, Center for  
Temporomandibular Disorders and Orofacial Pain  
Rutgers School of Dental Medicine

**A. Dirk Hightower, Ph.D.**

Senior Research Associate, University of Rochester  
Executive Director, Children's Institute

**Matthew Holder, M.D., M.B.A.**

CEO, Lee Specialty Clinic  
President Emeritus, American Academy of Developmental Medicine and  
Dentistry  
Global Medical Advisor, Special Olympics, Inc.  
President, Council on Developmental Disabilities

**Jeffrey M. Karp, D.M.D., M.S.**

Clinical Associate Professor, Department of Developmental and Surgical  
Sciences  
Director, Pediatric Residency Program  
University of Minnesota School of Dentistry

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Associate Professor, Program Director and Chair, Department of Oral and  
Maxillofacial Surgery  
Eastman Institute for Oral Health

**Hyun Koo, D.D.S., M.S., Ph.D.**

Professor and Director of Research, Levy Center for Oral Health,  
Department of Orthodontics  
Divisions of Pediatric Dentistry & Community of Oral Health  
University of Pennsylvania School of Medicine

**Dorota T. Kopycka-Kedziorawski, D.D.S., M.P.H.**

Associate Professor  
Deputy Director, Northeast Region, National Dental P.B.R.N.  
Eastman Institute for Oral Health

**Sherman F. Levey, Esq.**

Of Counsel  
Boylan Code, L.L.P.

**David Levy, D.M.D., M.S.**

Medical Director, Eastman Dental Center (Article 28)  
Chief Quality, Compliance and Safety Officer;  
Associate Professor of Clinical Dentistry, Eastman Institute for Oral Health  
Associate Professor of Pediatrics, University of Rochester School of  
Medicine & Dentistry

**Alan Lurie, D.D.S., Ph.D.**

Professor and Chair, Division of Division of Oral and Maxillofacial  
Diagnostic Sciences  
Chair, Section of Oral and Maxillofacial Radiology  
University of Connecticut School of Dental Medicine

**Sonia K. Makhija, D.D.S., M.P.H.**

Associate Professor, Department of Clinical and Community Sciences,  
Division of Behavioral and Population Sciences  
University of Alabama at Birmingham

**Hans Malmstrom, D.D.S.**

Professor and Chair, Division of General Dentistry  
Program Director, Advanced Education in General Dentistry  
Eastman Institute for Oral Health

**Yu Mao, D.D.S., M.S., Ph.D.**

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**Carlo P. Marinello, D.D.S., M.S., Ph.D.**

Professor Emeritus  
University of Basel

**Sean McLaren, D.D.S.**

Assistant Professor, Program Director and Chair, Division of Pediatric  
Dentistry  
Eastman Institute for Oral Health

**Cyril Meyerowitz, D.D.S., M.S.**

Professor and Director Emeritus, Eastman Institute for Oral Health  
Director, Northeast Region, National Dental P.B.R.N.

**Craig S. Miller, D.M.D., M.S.**

Professor and Chief, Division of Oral Diagnosis, Oral Medicine, Oral  
Radiology  
University of Kentucky College of Dentistry

**Ricardo Mitrani, D.D.S., M.S.D.**

SPEAR Education

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Head, Division of Public and Child Dental Health  
Associate Professor and Consultant in Paediatric Dentistry  
Dublin Dental University Hospital,  
National Children's Hospital, Dublin

**Brian O'Connell, B.D.S., Ph.D., F.A.C.P., F.T.C.D.**

Professor of Restorative Dentistry  
Head of the School of Dental Science & Dean of Dental Affairs  
Dublin Dental University Hospital  
Trinity College

**Luis C. Paras, D.D.S.**

Program Coordinator, Department of Graduate Oral Rehabilitation  
Universidad Autonoma de Queretaro, Faculty of Medicine

**Steve Perlman, D.D.S., M.Sc.D., D.H.L. (Hon)**

Clinical Professor of Pediatric Dentistry, Boston University School of Dental  
Medicine  
Global Dental Advisor, Special Olympics International

**Alfonso Pineyro, D.D.S.**

Affiliate Instructor  
University of Washington School of Dentistry

**Carlo E. Poggio, D.D.S., M.S.D., Ph.D.**

Studio Associato Poggio

**Stephen Porter, B.Sc., B.D.S., M.B., Ch.B., Ph.D., M.D., F.D.S.**

R.C.S.(Eng), F.D.S. R.C.S.(Edin), F.H.E.A.  
Institute Director and Professor of Oral Medicine  
UCL Eastman Dental Institute

**Douglas Portman, Ph.D.**

Associate Professor of Biomedical Genetics  
University of Rochester School of Medicine and Dentistry

**Walter J. Psoter, D.D.S., Ph.D.**

Associate Professor  
Eastman Institute for Oral Health

**Robert G. Quivey, Jr., Ph.D.**

Professor of Microbiology and Immunology  
Director, Center for Oral Biology  
Eastman Institute for Oral Health

**Dionne J. Richardson, D.D.S., M.P.H.**

State Dental Director  
New York State Department of Health/Division of Family Health/  
Oral Health Program

**Georgios Romanos, D.D.S., Ph.D., Prof. Dr. med. dent.**

Professor, Department of Periodontology  
Stony Brook University School of Dental Medicine

**P. Emile Rossouw, B.Sc., B.Ch.D. (Dent), B.Ch.D.-Hons (Child  
Dent), M.Ch.D. (Ortho), Ph.D., F.R.C.D.(C)**

Professor, Program Director and Chairman, Division of Orthodontics and  
Dentofacial Orthopedics  
Eastman Institute for Oral Health

**Frank A. Scannapieco, D.M.D., Ph.D.**

Professor and Chair, Department of Oral Biology  
University at Buffalo

**Buddhi M. Shrestha, D.D.S., M.S., Ph.D.**

Retired Associate Professor, Department of Community Dentistry  
Eastman Institute for Oral Health

**Martha J. Somerman, D.D.S., Ph.D.**

Director  
National Institute of Dental and Craniofacial Research/NIH

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Motivational Speaker

**Ross H. Tallents, D.D.S.**

Professor and Program Director, Orofacial Pain Program  
Eastman Institute for Oral Health

**Dennis P. Tarnow, D.D.S.**

Clinical Professor of Periodontology  
Director of Implant Education  
Columbia University College of Dental Medicine

**Peter Z. Tawil, D.D.S., M.S.**

Interim Endodontic Graduate Program Director  
UNC School of Dentistry

**Charles A. Thornton, M.D.**

Saunders Family Distinguished Professor in Neuromuscular Research  
University of Rochester Medical Center

**Ram M. Vaderhobli, D.D.S., M.S.**

Clinical Associate Professor and Dental Director, AEGD, Postgraduate  
Residency Program, University of California, San Francisco  
California Regional Associate Director, AEGD Program  
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Professor, Department of Family Dentistry  
The University of Iowa College of Dentistry

**John S. Vorrasi, D.D.S.**

Assistant Professor  
Eastman Institute for Oral Health

**Larry Wolford, D.M.D.**

Clinical Professor of Oral and Maxillofacial Surgery and Orthodontics  
Texas A&M University College of Dentistry

**Jin Xiao, D.D.S., M.S., Ph.D.**

Assistant Professor  
Eastman Institute for Oral Health

**Amirali A. Zandinejad, D.D.S., M.Sc.**

Assistant Professor  
Director of Advanced Education in General Dentistry,  
Texas A&M University College of Dentistry

**Domenick T. Zero, D.D.S., M.S.**

Professor, Department of Cariology, Operative Dentistry and  
Dental Public Health  
Director, Oral Health Research Institute  
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Handelman General Dentistry Conference  
Oral Medicine Conference

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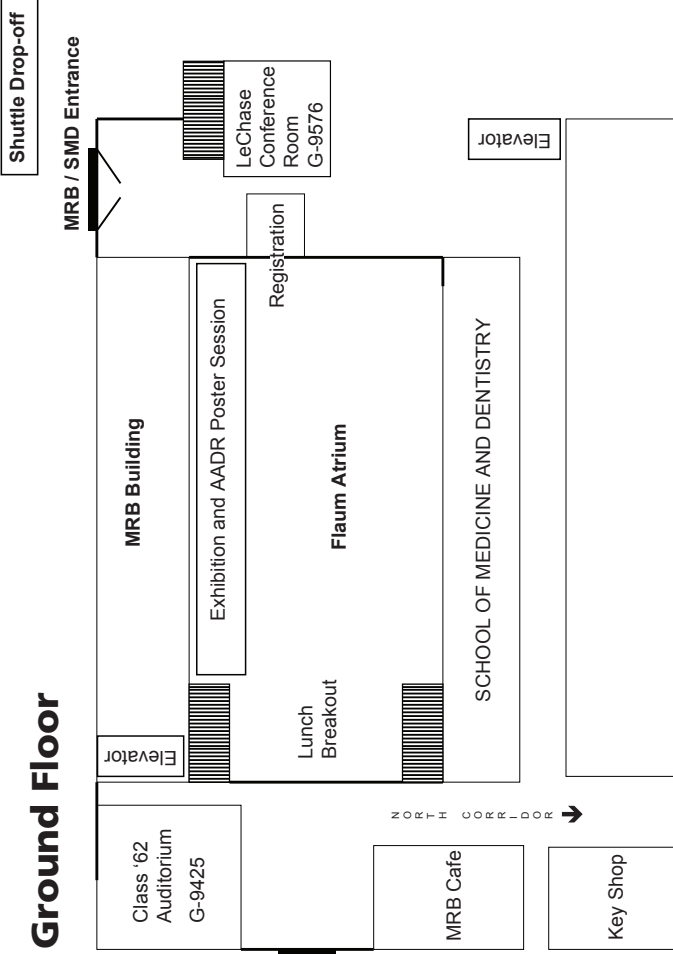
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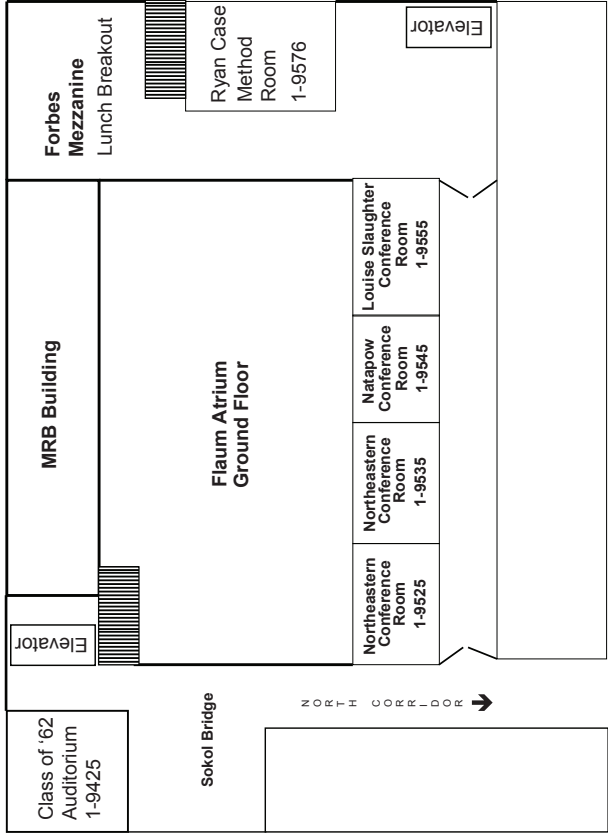
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# First Floor



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