



CELEBRATING 40 YEARS OF INNOVATION

ADVANCED 2017
20th VITREOUS SURGERY
COURSE

APRIL 21-22, 2017 • DURHAM CONVENTION CENTER • DURHAM, NC

TAMER H. MAHMOUD, MD, PhD, COURSE DIRECTOR

Beaumont

ACCREDITATION AND CREDIT DESIGNATION

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education through the joint providership of William Beaumont Hospital, Medical Conference Planners, Inc. and the 20th AVS Course.

William Beaumont Hospital is accredited by the ACCME to provide continuing medical education for physicians. William Beaumont Hospital designates this live activity for a maximum of 14.25 *AMA PRA Category 1 Credit(s)*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

***HONORING ROBERT MACHEMER, MD
and BROOKS W. McCUEN, II, MD***



ROBERT MACHEMER, MD (1933-2009)

Considered the father of vitreoretinal surgery, developer, innovator, mentor, and teacher, he came to Duke in 1978 as the Chairman of Ophthalmology and made Duke Eye Center the center of innovation and development of many vitreoretinal surgical procedures worldwide. Forty years later, we celebrate the 20th AVS meeting that he started.



BROOKS W. McCUEN, II, MD

A mentor, teacher, and a brilliant surgeon, who developed many surgical techniques and taught Duke fellows and surgeons from around the world the art of vitreoretinal surgery.

CELEBRATING 40 YEARS OF INNOVATION

“What have we achieved in the past 40 years and what to look forward to in the next 40 years. Progress comes from doing the unconventional.”



Tamer Mahmoud, MD, PhD
AVS Course Director

RETINA FACULTY

Sharon Fekrat, MD



Dilraj Grewal, MD



Glenn Jaffe, MD



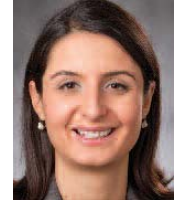
Miguel Materin, MD



Eric Postel, MD



Cynthia Toth, MD



Lejla Vajzovic, MD
fAVS Course Director

Welcome to the 20th Duke Advanced Vitreous Surgery (AVS) Course where we are excited to be celebrating 40 years of innovation!

The AVS Course occurs biennially and was initiated about 40 years ago by the late Robert Machemer, MD when he came to Duke as Chairman of Ophthalmology. For this momentous anniversary, we have unprecedented plans for an outstanding program including more than 50 world-renowned speakers.

This year's meeting is combined with our 3rd fellow AVS (fAVS) Course, which took place at the Duke Eye Center on April 20, 2017. The fAVS Course occurs annually and is open to all North American vitreoretinal surgical, medical retina, and uveitis fellows as well as international fellows. A number of the invited faculty for the 20th AVS Course participated in the 3rd fAVS Course. All the fellows who attended yesterday's fAVS Course are here with us at the 20th AVS Course. This time together provides a great opportunity for all to interact and share ideas.

On behalf of the entire Duke Eye Center Retina Faculty, I am pleased to welcome you to Durham and the 20th AVS Course. We are honored to have you!

Sincerely,

Tamer H. Mahmoud, MD, PhD (AVS Course Director)
and the Duke Eye Center Retina Faculty

Duke Retina Faculty



Top row (left to right): Glenn J. Jaffe, MD; Lejla Vajzovic, MD; Sharon Fekrat, MD; Tamer H. Mahmoud, MD, PhD.
Bottom row: Cynthia A. Toth, MD; Eric A. Postel, MD; Miguel A. Materin, MD; Dilraj S. Grewal, MD (not pictured).



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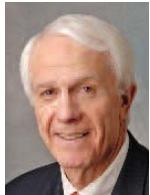


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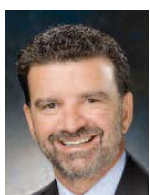
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FRIDAY, April 21

7:00 AM-5:30 PM

Registration

7:00 AM-5:30 PM

Exhibits

7:00-7:45 AM

BREAKFAST

7:45-8:00 AM

Welcome Remarks

Tamer H. Mahmoud, MD, PhD

8:00-10:00 AM

SESSION 1:

Retinal Detachment Concepts and Changes.

Chairs: Glenn J. Jaffe, MD,
George A. Williams, MD

8:00

Management of Macula On and Off Rhegmatogenous Retinal Detachment in the New Millennia

Tom H. Williamson, MD

8:08

Photoreceptor Degeneration in Detached Macula from Rhegmatogenous RD and CSCR

Young Hee Yoon, MD, PhD

8:15

Recovery of Photoreceptor After Retinal Detachment

Hiroko Terasaki, MD, PhD

8:22

Discussion

8:30

Management of Primary Retinal Detachment without Vitreotomy Adjuvants

Mark W. Johnson, MD

8:38

External Drainage During Vitrectomy

J. Michael Jumper, MD

8:45

“Retinal Thermofusion” as a New Retinopexy Method for Retinal Detachment Repair

Wilson J. Heriot, MD

8:53

Gas Concentration: How to Get It Right?

Tom H. Williamson, MD

9:00

Combined Retinoschisis Detachments

Timothy W. Olsen, MD

9:08

Discussion

9:15

Surgical Tips and Outcomes of Small-gauge Vitrectomy with and without Scleral Buckling for Proliferative Vitreoretinopathy

Yusuke Oshima, MD, PhD

9:23

Results of Vitrectomy for Eyes Following Failure of Surgery for PVR

Gary W. Abrams, MD

9:31

Multiple Intravitreal Methotrexate Injections for the Prevention of PVR

Dean Elliott, MD

9:39

Retinectomy/Retinotomy in PVR

Jose Garcia-Arumi, MD, PhD

9:47

Discussion

10:00-10:30 AM

BREAK

10:30-11:45 AM

SESSION 2:

Trauma. The Challenges Continue!

Chairs: Dean Elliott, MD, Eric A. Postel, MD

10:30

Retinal Detachment Occurring in Young Patients Following Ocular Trauma: Distinguishing Between Retinal Dialysis and Giant Retinal Tears

Harry W. Flynn, Jr., MD

10:38

27g Retinotomy and 5700cts Silicone Oil in Complicated Traumatic Retinal Detachment, Some Surprises

Athanasios Nikolakopoulos, MD

10:45

Controversies in the Management of Open-Globe Injuries Involving the Posterior Segment

William F. Mieler, MD

10:53

Visual Recovery in Eyes with No Light Perception After Open Globe Injury

Marco A. Zarbin, MD, PhD

11:00

Retinal Detachment After Open Globe Injury

Dean Elliott, MD

11:07

Discussion

11:15

PANEL: Repair of Retinal Detachment. Options from Around the World!

Moderator: Sharon Fekrat, MD

Panelists: Maria H. Berrocal, MD, Justis P. Ehlers, MD, Sherif Embabi, MD, Andre Gomes, MD, PhD, Motohiro Kamei, MD, PhD, Barbara Parolini, MD, Lihteh Wu, MD

11:45 AM-1:00 PM

LUNCH

with Industry Presentations

A non-CME event

12:00-12:36 PM

Alcon Laboratories, Inc
Dutch Ophthalmic, USA
Genentech, Inc
Alimera Sciences
Allergan, Inc
Bausch + Lomb
Retina Today/NRMD
Ellex, Inc
Heidelberg Engineering

1:00-2:00 PM

SESSION 3:

Drug Delivery, Stem Cells, Cavitory Optic Disc Maculopathy, and Retinal Prosthesis

Chairs: Stanislao Rizzo, MD, Lejla Vajzovic, MD

1:00

Update on Intraocular Sustained Drug Delivery Implants

Glenn J. Jaffe, MD

1:08

Drug Delivery in the Suprachoroidal Space

Timothy W. Olsen, MD

1:15

Discussion

1:20

Toward More Precise Subretinal Therapeutic Delivery: New Techniques and Instrumentation

Allen C. Ho, MD

1:28

Subretinal Cellular Delivery: Microscope Integrated OCT Approach

Lejla Vajzovic, MD

1:34

Tips and Tricks in Epiretinal Prostheses Surgical Implantation

J. Fernando Arevalo, MD

1:42

Pathogenesis and Surgical Approach to Cavitory Optic Disc Maculopathy

Mark W. Johnson, MD

1:50

Discussion

2:00-3:30 PM

SESSION 4: **Macular Holes. The Evolution and Revolution!**

Chairs: Steve Charles, MD,
Tamer H. Mahmoud, MD, PhD

2:00

When and How to Treat Myopic Traction Maculopathy?

Hiroko Terasaki, MD, PhD

2:07

The Inverted ILM Flap for Macular Holes. Concept and Development

Jerzy Nawrocki, MD, PhD

2:15

Inverted ILM flap. Large Series

Stanislao Rizzo, MD

2:23

ILM Graft Technique Under PFCL for Recurrent Macular Holes

Sengul Ozdek, MD

2:29

PRP for Macular Holes

Lejla Vajzovic, MD

2:35

Swept Source OCT Angiography in Macular Hole

Jerzy Nawrocki, MD, PhD

2:42

Discussion

2:50

Development of the Autologous Retinal Transplant for Macular Diseases

Tamer H. Mahmoud, MD, PhD

2:58

Autologous Retinal Transplants: Horizontal and Vertical

Barbara Parolini, MD

3:06

Autologous Retinal Transplant for Chronic and Refractory Macular Holes

Kazuaki Kadonosono, MD

3:13

Management of Very Large Macular Holes: Autologous Retinal Transplant versus ILM Flap

Sherif Embabi, MD, PhD

3:20

Discussion

3:30-4:00 PM

BREAK

4:00-5:30 PM

SESSION 5:

Lamellar Holes, ERM, and Advances in Imaging

Chairs: Andre Gomes, MD, PhD,
Cynthia A. Toth, MD

4:00

**Are There Two Types of Lamellar
Macular Holes?**

Stanley Chang, MD

4:08

**Epiretinal Membrane Peeling in
Good Vision Eyes: Evolving a
Rational Approach**

Colin A. McCannel, MD

4:15

Discussion

4:20

**To Peel or Not to Peel the ILM
in ERM Surgery**

Lihteh Wu, MD

4:27

**Intravitreal Dexamethasone Implant
versus Triamcinolone at the Time
of Vitrectomy for ERM**

Tarek S. Hassan, MD

4:34

**Visual Results & SD-OCT Changes
After Simultaneous Secondary
Epiretinal Membrane Removal in Eyes
Undergoing Silicone Oil Removal**

Cyrus M. Shroff, MD

4:41

Discussion

4:46

**Epiretinal Membrane Imaging
and Visualization**

Ramin Tadayoni, MD, PhD

4:53

**Topography of the Vitreoretinal
Interface in Vitreomacular Traction.
Implication on Treatment**

Dilraj S. Grewal, MD

5:00

**Intraoperative OCT Advances in
Image-guided Surgery**

Cynthia A. Toth, MD

5:08

Discussion

5:13

**OCT Angiography. A Wind of Change
in the New Millennia**

Richard F. Spaide, MD

5:23

Discussion

5:28

Wrap Up

Tamer H. Mahmoud, MD, PhD

5:30

Adjourn

5:45

**Meet in Marriott Lobby
to take bus to Gala Dinner**

6:00

Gala Dinner

Washington Duke Inn & Golf Club

SATURDAY, April 22

7:00 AM-5:30 PM

Registration

7:00 AM-1:15 PM

Exhibits

7:00-7:50 AM

BREAKFAST

7:50-8:00 AM

Opening Remarks

Tamer H. Mahmoud, MD, PhD

8:00-8:45 AM

SESSION 6:

PDR Surgery. Advances in Cutting, Gauges, and Imaging

Chairs: Tamer H. Mahmoud, MD, PhD,
Yusuke Oshima, MD, PhD

8:00

Pre-Operative Intravitreal Bevacizumab for TRD Secondary to PDR

J. Fernando Arevalo, MD

8:06

PDR Surgery: Cutter Only Dissection

Maria H. Berrocal, MD

8:12

PDR Surgery: Scissor Versus Cutter

Andre Gomes, MD, PhD

8:18

PDR Surgery: Viscodissection

Jose Garcia-Arumi, MD, PhD

8:24

Bimanual Micro Incision Vitreous Surgery for Severe Proliferative Diabetic Retinopathy – Indications, Results and Complications in a Series of Over 300 Cases

Cyrus M. Shroff, MD

8:30

Image-guided Surgery for Proliferative Diabetic Retinopathy: A Role for Intraoperative OCT

Justis P. Ehlers, MD

8:36

Discussion

8:45-9:30 AM

SESSION 7:

DME and Retinal Vascular Diseases

Chairs: Gary W. Abrams MD,
Sharon Fekrat, MD

8:45

Association Between Deep Capillary Nonperfusion at Baseline and the Photoreceptor Recovery in Treated DME Eyes; 1-Year Follow-up Result

Young Hee Yoon, MD, PhD

8:53

Macular Surgery for Diabetic Macular Edema. Is There a Real Role?

Virgilio Morales-Canton, MD

9:01

Discussion

9:10

Reperfusion of Severe Ischemic CRVO

Motohiro Kamei, MD, PhD

9:17

New Concepts in Retinal Vascular Cystoid Macular Edema

Richard F. Spaide, MD

9:24

Discussion

9:30-10:00 AM

BREAK

10:00-11:50 AM

SESSION 8:

PPV: New Technology and Complications

Chairs: Stanley Chang MD, Glenn J. Jaffe, MD

10:00

Retinectomy Approaches and Interface Vitrectomy

Steve Charles, MD

10:08

Discussion

10:10

Hypersonic Vitrectomy

Carl C. Awh, MD

10:18

Discussion

10:20

3D-Printing and Customized Forceps

David R. Chow, MD

10:28

Discussion

10:30

Keratoprosthesis and Retinal Complications

Jennifer I. Lim, MD

10:38

Discussion

10:40

Concurrent PPV/CE versus Sequential Surgery – Is There a Difference in Outcomes?

William F. Mieler, MD

10:48

Discussion

10:50

Profound Visual Loss After Vitrectomy

Stanley Chang, MD

10:58

Discussion

11:00

Advanced Retinal Implants

Mark S. Humayun, MD, PhD

11:15

Discussion

11:20

PANEL: Management of Submacular Hemorrhage in the Era of Anti-VEGF. Learn from the Technique Developers

Moderator: Dilraj S. Grewal, MD

Panelists: Carl C. Awh, MD, Wilson J. Heriot, MD, Kazuaki Kadonosono, MD, Jennifer I. Lim, MD, Tamer H. Mahmoud, MD, PhD, Eric A. Postel, MD

11:50 AM-1:15 PM

LUNCH

with Industry Presentations

A non-CME event

12:05 -12:35 PM

Insight Instruments, Inc.

Iridex Corp.

Leica Microsystems

Mallinckrodt Pharmaceuticals

MedOne Surgical, Inc.

OCULUS Surgical, Inc.

Regeneron Pharmaceuticals, Inc.

Second Sight Medical Products

Vitrex USA

ZEISS

1:15-2:20 PM

SESSION 9:

Tumors, Uveitis, Injections and Endophthalmitis

Chairs: Harry W. Flynn, Jr., MD,
Miguel A. Materin, MD

1:15

The Vitreoretinal Approach to Intraocular Biopsy: Evolution

Prithvi Mruthyunjaya, MD

1:23

Uveal Melanoma, Past 20 Years, Present and Future

Miguel A. Materin, MD

1:31

Discussion

1:35

Vitreotomy for Complications of Uveitis

Thomas A. Albini, MD

1:43

Discussion

1:45

Combined Vitrectomy, Silicone Oil, and Retisert to Treat Uveitic Hypotony

Glenn J. Jaffe, MD

1:53

Discussion

1:55

Emerging Resistance to Antimicrobials: Alternative Choices for Intravitreal Treatment of Endophthalmitis

Harry W. Flynn, Jr., MD

2:03

HORV – Findings of the ASRS/ASCRS Joint Task Force

J. Michael Jumper, MD

2:11

Cutting Edge New Techniques: Non-opening Trans Retinal Injection

Ramin Tadayoni, MD, PhD

2:18

Discussion

2:20-3:05 PM

SESSION 10:

Lensectomy, and IOL Fixation Techniques. New Frontiers for Retina Surgeons

Chairs: Dilraj S. Grewal, MD,

Tarek S. Hassan, MD

2:20

Tips and Tricks for Intracocular PCIOL Fixation

George A. Williams, MD

2:28

A Novel Technique of Scleral Fixation of IOL

Motohiro Kamei, MD, PhD

2:35

Surgical Variation, Tips and Results of Small-gauge Vitrectomy Assisted IOL Fixation for Dislocated IOLs

Yusuke Oshima, MD, PhD

2:43

Discussion

2:49

BISOFT Technique for Dropped Nucleus and Inception of a Sutureless Endoscleral IOL in MIVS Vitrectomy

Athanasios Nikolakopoulos, MD

2:56

Lens Cage for the Removal of Dropped Nucleus in Small Gauge

Marco Mura, MD

3:03

Discussion

3:05-3:30 PM

BREAK

3:30-4:30 PM

SESSION 11: Advances in Pediatric Retina

Chairs: Cynthia A. Toth, MD,
Michael T. Trese, MD

3:30

Surgical Management of Coats/ Coats-like Exudative Retinal Detachment

Antonio Capone, Jr., MD

3:38

Discussion

3:40

Surgical Management of Persistent Fetal Vasculature syndrome

Michael T. Trese, MD

3:48

Discussion

3:50

Surprises During and After Surgery for Anterior PFV

Sengul Ozdek, MD

3:57

Discussion

3:59

Surgical Repair of Coloboma RD

Cynthia A. Toth, MD

4:07

Discussion

4:10

PANEL: Pediatric Panel. Surgical Challenges

Moderator: Lejla Vajzovic, MD

Panelists: Antonio Capone, Jr., MD,
Sengul Ozdek, MD, Cynthia A. Toth, MD,
Michael T. Trese, MD

4:30-5:14 PM

SESSION 12: 3D Surgical Imaging, a New Frontier, Clinical Trials Wisdom, and Malpractice Tips

Chairs: Mark W. Johnson, MD, PhD,
Eric A. Postel, MD

4:30

**Digitally Assisted Vitrectomy Surgery –
Initial Impressions Enhanced Stereo,
Digital Image Manipulation and
Reduced Light Levels**

David R. Chow, MD

4:38

**3D Digitally Assisted Vitrectomy
in Different Surgical Settings:
4 Years' Experience**

Marco Mura, MD

4:45

**Digitally Enhanced ILM Staining in
3D Surgery with Ikegami Cameras
for Macular Diseases**

Kazuaki Kadonosono, MD

4:52

Discussion

4:57

**Application of Clinical Trial Results
to Clinical Practice**

Marco A. Zarbin, MD, PhD

5:05

Discussion

5:07

**Retinal Malpractice:
The OMIC Experience**

George A. Williams, MD

5:15

Discussion

5:17

Wrap Up

Tamer H. Mahmoud, MD, PhD

5:20

Adjourn

5:45

**Meet in Marriott Lobby
to walk to The Pit**

6:00

Casual Dinner at The Pit



SAVE THE DATES

2018

4th Annual Fellows
Advanced Vitreous Surgery Course (fAVS)
APRIL 13-14, 2018

2019

5th Annual Fellows
Advanced Vitreous Surgery Course (fAVS)
April 11, 2019
AND
21st Advanced Vitreous Surgery Course (AVS)
April 12-13, 2019

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Mallinckrodt Pharmaceuticals
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Santen, Inc.**

EXHIBITORS

The AVS Course gratefully acknowledges
the following companies for their generous support.

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Genentech, Inc.**

SILVER

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Ellex, Inc.	Retina Today/NRMD
Heidelberg Engineering	Second Sight Medical Products
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Leica Microsystems	ZEISS
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