



# The RECORDER

*The American Neurogastroenterology and Motility Society and  
Functional Brain Gut Research Group Newsletter-October 2010*

## **Message from ANMS President:**

**Satish Rao, MD, PhD, FRCP, FACC**



On a clear beautiful summer evening, as the sun went down, the western sky was suddenly lit with spectacular fireworks. Against this background, standing at the podium in front of 600 guests attending a banquet dinner at the John F. Kennedy Library and Museum in Boston, Massachusetts, Michael Camilleri turns towards me, shakes my hand and says "Its all yours Satish, I

have done my best and now its your turn" and returns to his seat.

As the first President of our newly merged ANMS and FBG societies, and the 13<sup>th</sup> to preside over the oldest society - yes our society is 30 years old - dedicated to the advancement of science, education, patient care and research in the field of neurogastroenterology and gastrointestinal motility, it is an honor and a privilege to serve you.

Having been intimately involved with the society's leadership for over 10 years as a council member and chair of many committees, I had the good fortune of learning from the stewardship of Presidents Joe Szurzewski, Robert Summers, Chung Owyang, Henry Parkman, Michael Camilleri and Emeran Mayer. These visionaries have built a strong foundation and it is my pledge to you that I will work tirelessly to uphold the principles and missions of our society.

## **What have we accomplished?**

This past summer witnessed a **historical merger of the ANMS and FBG**. As expected, there was intense debate and tireless deliberations among members-at-large and the leadership. Led by the councils of both societies and the strong leadership, wisdom and an inherent desire to join hands and work towards our common goals and missions prevailed over other considerations.

Today, we have an expanded and diverse council and membership that has some of the best minds in neurogastroenterology and GI Motility, and that spans across North America and 58 countries. We have 10 committees that include Research, Clinical Practice, Education, Finance, Membership, Public relations,

Pharma/Industry, Liaison, Nomination and Journal Management Committee, each with a Chair/Vice Chair.



*Current and Past-Presidents at ANMS/FBG Merger Reception at DDW May 2010. Right to Left: M Camilleri, S Rao, H Parkman, GR Locke, Back Row: N Talley R Summers, W Whitehead, D Drossman, E Mayer, Lin Chang, W Snape, and C Owyang*

Immediately after DDW, we hosted the most successful **postgraduate course with live demonstrations of Motility procedures** for the first time that attracted nearly 300 delegates along with a superb **international scientific meeting** in Boston that attracted over 650 delegates. Attendees unanimously felt that this was the best and most successful meeting.



*NGM 2010 Banquet Dinner at JFK Library, Boston, MA. Right to Left: S Rao, N Tripuraneni, K Tripuraneni, D Grundy, J Galligan, M Schemann, H Camilleri, J Camilleri, M Camilleri, V Stanghellini, and S Rao.*

### ANMS-Tripuraneni Oration

American Neurogastroenterology & Motility Society (ANMS) has recently received a generous gift from a physician donor and a fellow gastroenterologist and his family. Their wishes are to support the best research/science and that is at the cutting edge of neurogastroenterology.

Consistent with the wishes of the donor, the Scientific Committee of the Joint Neurogastroenterology and Motility Societies selected Professor Michael Schemann, PhD, Technical University, Munich, Germany to deliver a State-of-the-Art lecture entitled "Imaging human enteric nerves". He was recognized for his outstanding scientific contributions towards developing a cutting edge approach to assess enteric neurons and key neurotransmitters that regulate their activity. Professor Schemann delivered his oration on Friday, August 27th 2010 during the scientific meeting and received the First ANMS Tripuraneni Oration Award during the banquet celebrations held at the John F Kennedy Presidential Museum, Boston, Massachusetts on Saturday August 28th, 2010.

For all of this, we owe a special thanks to the scientific committee, the postgraduate course directors and the local organizing team.



ANMS Tripuraneni Oration Award, NGM 2010 Meeting, Boston, MA: Right to Left: M Camilleri, J Camilleri, N Tripuraneni, K Tripuraneni, M Schemann, S Rao and S Rao.

Just 3 weeks later, we led a strong delegation to a jointly sponsored **ANMS-FBG and FDA workshop on Digestive System Motility Biomarker Qualification Process** that attracted over 85 participants from industry, pharma, device manufacturers, NIH, NIDDK, AGA and the FDA. This is the first time that such a diverse group of individuals debated and deliberated on the merits of various biomarkers for GI motility and the first FDA initiative in gastroenterology. This qualification process should place our field in a strong position for the future of drug and device development and scientific research.

- The **patient education brochure project** of the clinical practice committee has unveiled 10 brochures on commonly performed tests and topics such as esophageal manometry, pH testing, achalasia, gastroparesis, pseudoobstruction, constipation, IBS, anorectal manometry, biofeedback therapy, and fecal incontinence. These will be available for members and for use in patient preparation.

- The **clinical training program for GI fellows**, ably supported by 10 centers of excellence in USA, has now trained over 65 fellows in North America and remains our flagship education/training program. It has attracted many talented applicants and continues to grow.
- ANMS, in collaboration with our sister societies AGA, ACG and ASGE has sponsored several **clinical procedural terminology (CPT) codes** for new GI Motility procedures that should improve billing and coding of procedures and reimbursement for clinicians.
- The Research Committee reviewed several meritorious applications for 2009-2010 and awarded two **ANMS Research Grants** to outstanding basic and translational projects. Grant awardees are:
  - Gregory O'Grady**, *The University of Auckland* grant entitled "Clinical Advances in Evaluating Gastric Dysrhythmia"
  - Sung Jin Hwang**, *University of Nevada School of Medicine*, grant entitled "The Role of Fibroblast-Like Cells in Post-Junctional Neural Responses in the GI Tract."
- The Clinical Practice Committee spearheaded efforts for a combined **ANMS and ESNM position paper on gastrointestinal transit** that will be published soon in our journal.
- Our journal *Neurogastroenterology and Motility* led by our outstanding editors continues to rise with a steady growth on its impact factor.
- We have **partnered with IFFGD on an advocacy visit to the Capitol** in spring 2010. This joint effort has resulted in passing legislation for designating IBS awareness month, and for improved funding for GI motility and neurogastroenterology research and for congressional recognition of functional gastrointestinal disorders and IBS.



IFFGD Capitol Hill Advocacy Day



## Where are we going?

The council and the Scientific Committee are expeditiously working on various agenda items including the organization of our next **biennial scientific meeting, postgraduate course, and young investigator forum in September 2011**. Their efforts will be supported by the Education Committee led by Adil Bharucha and Anthony Lembo and Clinical Practice Committee led by Lin Chang.

An important committee led by Henry Parkman is seeking input from all members for advising the council on a name for our merged society that best reflects our missions and goals, our field and its future, our journal and our sister societies.

The **Research Committee** led by Helen Raybould will be reviewing applications for new research grants for young investigators to be awarded in January 2011.

The **Clinical Training Program** will train another 20-25 GI fellows during 2010-11. A Program Director/Sponsor/Alumni breakfast meeting will be held during ACG in San Antonio, 2010 and a Program Directors retreat will be planned next summer.

We anticipate producing a society membership directory by May 2011 and invite input from all members to Beverley Greenwood, Chair, **Membership Committee**. A council retreat is planned in January 2011.

We anticipate developing ANMS-FBG consensus guidelines for several topics. Under the auspices of the clinical/education/research committees

We are a thriving, growing and vibrant society, and this is in large part due to your passion, contributions, and devotion. I am pleased to report that all of our committees are working hard. We have a great team and I am confident that together we will build a solid future for our field and for neurogastroenterologists.

I look forward to meeting each of you in person and to hear your views and suggestions about what we can do together to help our members and shape our society. Meanwhile, please do not hesitate to write to me at [satish-rao@uiowa.edu](mailto:satish-rao@uiowa.edu) or Lori Ennis at [admin@motilitysociety.org](mailto:admin@motilitysociety.org) if we can assist you in any way or if you wish to serve our society.

*"Whatever you do will seem insignificant, but it is very important that you do it."*

**MK Gandhi**

*"Change is constant. Learn to go with its flow, whether it's peaceful or difficult."*

**Anonymous**



**Digestive System Motility  
Biomarker Qualification  
Workshop Co-sponsored by  
Food and Drug Administration  
and ANMS-FBG Joint Society  
Report by Michael Camilleri**

On September 23-24, 2010, the ANMS-FBG co-sponsored a workshop with FDA on the qualification of biomarkers related to motility and, to some extent, functional gastrointestinal disorders. The conveners of the meeting were Michael Camilleri MD for ANMS-FBG and Dr Federico Goodsaid for

FDA. The process for development of scientific content started around April 2010. Section leaders worked with representatives from academia, FDA and industry (device and pharma) to develop the presentations and discussions.

The objectives were to provide information for all interested parties on the state of the art in quantitative traits in motility and functional gastrointestinal disorders, the evidence of validation of the biomarkers, the FDA process for biomarker qualification, and the pros and cons of such qualification.

The workshop was divided into 5 sessions over a day and a half.

## AGENDA

- 8:00 am Welcome and Introduction – *M Camilleri*
- 8:10 am The Biomarker Qualification Process  
*F Goodsaid*

## SESSION ONE: Esophageal Biomarkers

- 8:30 am What is the relationship between esophageal symptoms and pathophysiology of esophageal disorders?  
*Satish Rao*
- 8:40 am High Resolution Esophageal Manometry for Defining Motility Disorders  
*John Pandolfino*
- 9:10 am Acid and Non-Acid Reflux Including Impedance pH  
*Ken DeVault*
- 9:40 am Esophageal sensory testing for esophageal pain - esophageal balloon distension test/chemical/others  
*Satish Rao*
- 10:05 am General Discussion for the Esophagus ALL

## SESSION TWO: Stomach and Small Bowel Biomarkers

- 10:45 am How do gastric and small bowel syndromes present? What is the relationship between symptoms and pathophysiology?  
*W Hasler*
- 11:00 am Scintigraphy: stomach and small bowel  
*H Parkman*
- 11:30 am Wireless Motility Capsule  
*B Kuo*
- 12:00 pm Stable isotope breath tests  
*M Camilleri*
- 12:15 pm Discussion of other tests with potential: accommodation, sensation, satiety/satiation, myoelectrical activity  
*W Hasler*
- 12:30 pm General Discussion Stomach and Small Bowel ALL

## SESSION THREE: Colon-Rectum Motility Biomarkers

- 2:00 pm How do colonic syndromes present? What is the relationship between symptoms and pathophysiology? *H Parkman*
- 2:15 pm Scintigraphy: Colon – *M Camilleri*
- 3:00 pm Radiopaque Markers – *B Kuo*
- 3:30 pm Wireless Motility Capsule – *S Rao*
- 4:00 pm Colonic Manometry – *C DiLorenzo*
- 4:15 pm General Discussion Colon and Rectum – ALL

## SESSION FOUR: Brain Imaging

- 8:00 am Pharmacologic fMRI: bridge between preclinical and clinical effectiveness  
*E Mayer*

8:45 am Brain imaging in IBS drug development  
*K Tillisch*

9:30 am General Discussion on Brain Imaging

#### **SESSION FIVE: Tissue and Serum Molecular Biomarkers**

10:30 am HPA Axis/Cortisol

*L Chang, M Heitkemper*

10:45 am Immune markers: cytokines, immune cells, proteases  
*C Pothoulakis, E Kokkotou*

11:15 am Serotonin and 5-HIAA levels

*L Chang, M Heitkemper*

11:30 am IBS diagnostic panels

*C Pothoulakis, E Kokkotou*

11:45 am Fecal calprotectin, Beta-defensin

*L Chang, M Heitkemper*

12:15 pm General Discussion for Tissue and Serum  
Molecular Biomarkers – ALL

**SESSION General Discussion:** Next steps, other items.

1:45 pm -2:45pm

The ANMS-FBG leaders will decide in the near future whether to sponsor applications for qualification of biomarkers. There was consensus that some of these markers already have achieved proven context of use, performance characteristics, plausibility, practical applicability, utility and clinical significance (e.g. prediction of responsiveness in efficacy trials) to be submitted for qualification. However, the pros and cons will be discussed to ensure that the process is indeed in the best interest of patients and development of novel diagnostics and treatments.

#### **Upcoming Meetings:**



#### **16<sup>th</sup> Neurogastroenterology & Motility Meeting and 6<sup>th</sup> Postgraduate Course on Gastrointestinal Motility & Neurogastroenterology in Clinical Practice. September 16-18, 2011; St. Louis, Missouri**

- Scientific Presentations
- State-of-the-Art Lectures
- Live demonstrations of motility procedures
- Workshops by renowned faculty
- Young Investigator Forum

**Digestive Disease Week:** May 8-10, 2011 in Chicago, Illinois. Visit our ANMS Booth #2349 in Foundation Row

#### **9<sup>th</sup> International Symposium on Functional Gastrointestinal Disorders**

April 8-12, 2011, Pfister Hotel, Milwaukee, Wisconsin

#### **2012 NGM Joint International Meeting**

September 6 – 8, 2012, Bologna, Italy

#### **Ongoing Projects of ANMS**

##### **Committee on Research**

Chair: H. Raybould

**2010-2011 ANMS Research Grant Program** The ANMS will again offer the research grants program in 2010. The number of awards and dollar amount will depend on the success of fund raising efforts, but the ANMS plans to offer a minimum of two awards at \$30,000 each. The awards are intended to facilitate development of larger extramural grant applications and to promote career development of young investigators. The submission deadline will be **November 12, 2010**. Award notification will be made by mid-December, 2010 and the award start date will be January, 2011. For more information on selection criteria, eligibility, please consult the website <http://www.motilitysociety.org>

##### **Membership Committee add new members**

Chair: Beverley Greenwood van Meerveld

Vice Chair: Ronnie Fass

The Membership Committee initiated a membership drive with the goal to double the number of members over the next 3 years. ***Towards this goal, the committee requests all members of ANMS to consider nominating colleagues and trainees to become ANMS members.*** A component of this effort will require personal contact between current members and their colleagues working in research and clinical areas relevant to the ANMS. Our success as a society primarily depends on your individual and collective support as members

**Invite your colleagues to join the ANMS. They can easily join on the ANMS website.** For the membership fee you get a \$250 value journal subscription to *Neurogastroenterology and Motility*! In addition, society members receive copies of the *Recorder*, and get reduced registration fees to ANMS meetings. Share this information with your colleagues. Note there are now three types of memberships for our society:

**Regular Member - \$125**

**Trainee Member – \$50**

For individuals in graduate school or postgraduate training (GI Fellows, Post-doc)

**Auxiliary Member – \$50**

Nurse, technician, nurse practitioner, physician assistant that assists in the practice of GI motility and functional GI disorders.

**Emeritus Status:** age of 70 years, receive electronic version only with no membership fee. Such members are approved by the Council after application to the Society.

##### **Education Committee**

Chair: Adil Bharucha

Vice Chair: Brennan Spiegel

The ANMS Clinical Training Program for GI Fellows has been successful since its inception in 2006. We have 10 centers (Cedars Sinai Medical Center, Medical College of Wisconsin (Adult) and Children's Hospital of Wisconsin (Pediatrics), Milwaukee, WI, Nationwide Children's Hospital, Columbus, OH, Penn State Milton S. Hershey Medical Center, Hershey, PA, Temple University, Philadelphia, PA, Texas Tech, El Paso, TX, University of Iowa, Iowa City, IA, University of Michigan, Ann Arbor, MI, University of North Carolina at Chapel Hill, NC and Wake Forest University, Salem, NC).

This year, 20 GI Fellows will be spending a one month rotation at one of these 10 GI Motility Centers of Excellence to learn the art and practice of neurogastroenterology with special emphasis on learning the various GI motility procedures that are used to evaluate patients with these disorders. This should provide a strong foundation for a better understanding of GI motility problems and its treatment. The program has received excellent reviews by both the GI fellows and the faculty; the reviews were appraised by the ANMS Council, which enthusiastically endorsed continuation of this program. If you are interested, visit the ANMS website and fill out an on-line application for the 2010-2011 academic year. The ANMS is committed to continue this training program. This program was made possible through unrestricted grant support from *Takeda Pharmaceuticals North America and Sucampo Pharmaceuticals Inc. and SmartPill Corporation*.

### **Clinical Practice Committee**

Chair: Lin Chang

Vice Chair: Carlo DiLorenzo

### **Patient Education Brochures:**

Several ANMS members have enthusiastically contributed towards the development of several patient education brochures that relate to common GI motility procedures and topics. These will be available on the ANMS website and as printed brochures. A list of brochures is shown below. We wish to thank Sucampo Pharmaceuticals, Inc. and Takeda Pharmaceuticals North America, Inc for providing an unrestricted educational grant for this project. The ANMS is grateful to the many members who donated their time and talent to develop these educational materials.

Achalasia

Anorectal manometry

Biofeedback therapy

Colonic manometry

Constipation

Esophageal pH Monitoring

Fecal incontinence

Gastroparesis

Gastroesophageal Reflux Disease (GERD)

Irritable Bowel Syndrome (IBS)

Chronic Intestinal Pseudoobstruction

An updated Registry of GI Motility Laboratories is posted on our ANMS website ([www.motilitysociety.org](http://www.motilitysociety.org)). The purpose of this registry is to have a listing of GI Motility Laboratories that perform good quality GI motility testing that can be relied on by other physicians. This will help both physicians who what to refer patients as well as patients who might need to find a local laboratory that does this procedure. In the future, this registry may be useful for quality assurance and pay for performance.

### **Committee exploring consensus name for our merged ANMS-FBG Society**

#### **Report by Henry Parkman**

As mandated by the merger discussions, the ANMS-FBG council has charged the following committee, Henry Parkman (Chair), Bill Chey, Gianrico Farrugia, Bruce Naliboff and Reza Shaker to report to the council suggestions for an appropriate name(s) for our merged ANMS-FBG Society by December 2010.

The committee has met on several occasions to discuss the need to have the name reflect the mission and goals of the merged society as well as align this with our journal, and on a more concrete level, the costs and legal implications involved in society name changes. In response to an email to the membership, the committee has received input regarding possible names. Given the importance of this task, we are again asking each member to think about this issue and let us know your ideas as soon as possible. Given below are some broad options. Note that the examples below are to illustrate possibilities and the membership is welcome to suggest others or better ones:

#### **1. Continue to use ANMS as the title of the merged society.**

This will help to maintain symmetry with titles for the other international societies and our journal. To acknowledge the merger, we can broaden the tag line; Example:

American Neurogastroenterology and Motility Society:

Study of Brain Gut Interactions, Gastrointestinal Motility and Functional Gastrointestinal disorders.

#### **2. Use naming components from the names of the merged societies**

Examples:

American Neurogastroenterology, Motility, and Brain-Gut Research Society

American Society for Neurogastroenterology, Motility, and Functional GI Disorders (ASNMFGD)

Society of Neurogastroenterology and Functional GI Disorders (SNFGD)

Society for Neurogastroenterology, Motility, and Functional GI Disorders

#### **3. Use a new name for new society – This might be a simple name with tag line:**

Examples:

American Society of Neurogastroenterology

American Society for Neurogastroenterology

American Neurogastroenterology Society: Advancing Care and Understanding of GI Motility, Pain and Functional GI Disorders

American Neurogastroenterology Society (ANS),

The American Neurogastroenterology Association (ANA)

The American Society for the study of Neurogastroenterology

#### **4. Constructing a new name that reflects our membership and where we want our society to be, including embracing an international and much broader membership.**

Example:

Society for Neurogastroenterology (perhaps with a descriptive tag line).

Society for Enteric Neuroscience

Please let us know your ideas and suggestions by contacting any of the Committee members:

Bill Chey: [wchey@med.umich.edu](mailto:wchey@med.umich.edu)

Bruce Naliboff: [naliboff@ucla.edu](mailto:naliboff@ucla.edu)

Gianrico Farrugia: [farrugia.gianrico@mayo.edu](mailto:farrugia.gianrico@mayo.edu)

Reza Shaker: [rshaker@mcw.edu](mailto:rshaker@mcw.edu)

Henry Parkman: [henry.parkman@temple.edu](mailto:henry.parkman@temple.edu)



**The ANMS Journal: Neurogastroenterology and Motility**  
*Neurogastroenterology and Motility* made two awards at the NGM 2010 meeting in Boston. The auspicious event occurred during the reception and banquet held at the John F. Kennedy Presidential Library and Museum. The first prize was awarded to the winner of the Journal Cover competition. Each year the journal cover is selected from entries of original illustrations submitted by members of the joint societies. This year's winner was Dr. Simon Gibbons from the Dept of Physiology at the Mayo Clinic seen in the photograph with the framed mock up of the 2011 cover



presented by the Chair of the Journal Management Committee, David Grundy.

The impact factor of *Neurogastroenterology & Motility* rose again, for the 5th year running, from 3.480 in 2008 to 3.568, overtaking for the first time the GI section of *American Journal of Physiology*.

### Photos from Clinical Course and NGM 2010



*T Lembo and J Pandolfino preparing for live demonstration*



*Camera man preparing for live demonstration*

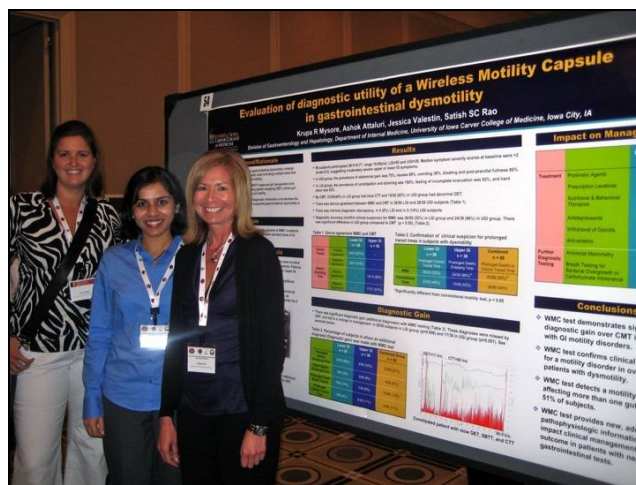
### Officers of the American Neurogastroenterology and Motility Society (ANMS)

#### Officers beginning September 2010

Satish S. C. Rao, MD, PhD	<i>President</i>	2010-2012
Lin Chang, MD	<i>President-Elect</i>	2010-2012
Carlo DiLorenzo, MD	<i>Secretary</i>	2010-2014
John Wiley, MD	<i>Treasurer</i>	2006-2012
James Galligan, PhD	<i>Councilor</i>	2006-2012
Gary M. Mawe, PhD	<i>Councilor</i>	2006-2012
Adil Bharucha, MD	<i>Councilor</i>	2008-2012
Anthony Bauer, PhD	<i>Councilor</i>	2006-2012
Jiande Chen, PhD	<i>Councilor</i>	2008-2012
Beverley Greenwood, PhD	<i>Councilor</i>	2008-2012
Shin Fukudo, MD, PhD	<i>Councilor</i>	2010-2014
Margaret Heitkemper, RN, PhD	<i>Councilor</i>	2010-2014
Richard McCallum, MD	<i>Councilor</i>	2008-2012
Bruce Naliboff, PhD	<i>Councilor</i>	2010-2014
Helen Raybould, PhD	<i>Councilor</i>	2008-2012
Reza Shaker, MD	<i>Councilor</i>	2008-2012
Magnus Simrén, MD, PhD	<i>Councilor</i>	2010-2014
Brennan Spiegel, MD, MSHS	<i>Councilor</i>	2010-2014
Ann Ouyang, MD	<i>Representative to NGM</i>	
Ronnie Fass, MD	<i>Representative to NGM</i>	
Michael Camilleri, MD	<i>Immediate Past President, ANMS</i>	
Emeran A. Mayer, MD	<i>Immediate Past President, FBG</i>	
Nancy Norton	<i>Ad Hoc Councilor</i>	
Lori Ennis	<i>Executive Director</i>	



*Lunch with the Meet-the-Professor*



*Poster Session*