

International Society  
for the History of the  
Neurosciences

**ISHN**  
**2018**



**International Society for the History of the Neurosciences**  
**Dittrick Medical History Center, Cleveland, Ohio, USA**  
**June 19-22, 2018**



**Symposia**

- Instruments in the History of the Clinical Neurosciences
- The Founding of the American Academy of Neurology

**Invited lectures**

- James Edmonson: Redesigning the trephine in the 19<sup>th</sup> century
- Peter Whitehouse: Connecting degenerative mythologies
- Douglas Lanska: [Presidential address] Revisiting the Decorative and Historiated Initials in the Basel Editions of Works by Vesalius

**Exhibits**

- Dissection of the Brain in Woodcut: A Visual Exploration of Renaissance Anatomy from Gersdorff to Vesalius

**Deadline for abstracts March 31, 2018**

For more information, contact [Douglas.Lanska@gmail.com](mailto:Douglas.Lanska@gmail.com)  
[www.ishn.org](http://www.ishn.org)

# ISHN – 23<sup>rd</sup> International Congress

Co-sponsored by the Dittrick Medical History Center,  
Case Western Reserve University, Cleveland

## Local Organizing Committee

James Edmonson (*Cleveland, Ohio, USA*) – Co-Chair, Chief Curator  
Douglas J. Lanska (*Tomah, Wisconsin, USA*) – Co-Chair, ISHN President  
Mary Jo Lanska (*Tomah, Wisconsin, USA*)  
Robert B. Daroff (*Cleveland, Ohio, USA*)  
Peter J. Whitehouse (*Cleveland, Ohio, USA*)

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Paul Eling (*Nijmegen, The Netherlands*) – Co-Editor-in-Chief, *J. Hist. Neurosci.*  
Peter Koehler (*Heerlen, The Netherlands*) – Co-Editor-in-Chief, *J. Hist. Neurosci.*  
Frank Stahnisch (*Calgary, Canada*) – Co-Editor-in-Chief, *J. Hist. Neurosci.*

## **Dear Colleagues and Friends,**

On behalf of the Local Organizing and Scientific Program Committees, and the Staff of the Dittrick Medical History Center, my wife and I are delighted to welcome you to the 23<sup>rd</sup> Congress of the International Society for the History of the Neurosciences held this year in Cleveland, Ohio in the north-central United States. This year's meeting is co-sponsored by the Dittrick Medical History Center at Case Western Reserve University.

My wife and I have wonderful memories of our residency and fellowship time in Cleveland in the late 1980s, and we sincerely hope that you, too, will experience many of the bountiful opportunities Cleveland offers.

### Some Background on Cleveland and its Medical History:

Cleveland, the birthplace of neurosurgeon Harvey Cushing (1869-1939), is a spectacular city located on the southern shore of beautiful Lake Erie, one of the five Great Lakes that the United States shares with Canada.

The two leading medical institutions in Cleveland are University Hospitals and the Cleveland Clinic. The great medical tradition of Cleveland includes many outstanding clinicians and neuroscientists who have expanded our understanding of neurological disorders, including the husband-and-wife team of Maurice Victor (1920-2001) and Betty Q. Banker (1921-2010), as well as Joseph Foley (1916-2012) and Robert B. Daroff (1936-). Maurice Victor was known for his studies of the neurological disorders of alcoholics, including Wernicke-Korsakoff encephalopathy and Adams-Victor-Mancall syndrome, while his wife, Betty Banker, was a pioneer in neuropathology, noted particularly for her studies of muscle diseases. Joe Foley was known for his studies of the neurological manifestations of liver disease, including his description of asterixis with Raymond Adams. Bob Daroff is known for his pioneering studies of the disorders of ocular motility.

Joe Foley and Bob Daroff were wonderful mentors during our residency training years in Cleveland. Moreover, both had a great interest in the history of neurology, and both in their own ways enjoyed anecdotes of the great neurologists of the past.

Bob was the Chairman of Neurology at University Hospitals (UH) at the time, and he was the reason my wife and I decided to go to Cleveland, over all of the other places we considered. Then, as now, he was genuinely committed to his trainees, and this was apparent from the first time we met him. His knowledge of clinical neurology, his passion for teaching, and his integrity were (and are) unparalleled. I could not have had a better experience as a resident and chief resident, and this was entirely because of Bob.

Joe Foley had been the Chairman of Neurology at UH before Bob, and by the time my wife and I were residents he was a very active emeritus professor of neurology. Joe had been awarded a Bronze Star for his bravery as a front-line physician on the beaches of Normandy during the D-day invasion of World War II. He had also suffered profound personal tragedy. But these experiences never diminished his zest for life, or his impish humor. He was always entertaining



and engaging, showed great respect for patients of all walks of life, and had a humorous story (actually multiple stories) for every situation. If a large crowd collected around someone at an American Academy of Neurology meeting, you could be sure Joe was at the center of the group, especially if the entire group was laughing.

#### Some Background on Case Western Reserve University:

As already noted, this year's meeting is being held on the campus of Case Western Reserve University (CWRU). Case Western Reserve University was formed in 1967 as an amalgamation of two much older institutions: Case Institute of Technology, founded in 1881, and Western Reserve University, founded in 1826. The name "Western Reserve" has somewhat complicated historical origins. The Western Reserve (also known as the Connecticut Western Reserve) was an area in the Northwest Territory held, sold, and distributed by the State of Connecticut in the years after the American Revolution. Connecticut was one of several states that had land claims in the Ohio Country going back to the colonial period. Connecticut gave up most of its claims to the federal government so that the Northwest Territory could be created. However, it reserved the northeast corner of the territory for itself: a horizontally oriented strip of land in what is now northeastern Ohio, including the area occupied by the city of Cleveland.

CWRU can boast affiliations with 16 Nobel laureates, including Albert Michelson, the first American to receive the Nobel prize (Physics, 1907). In 1887, the Michelson-Morley interferometer provided the first strong evidence *against* the then-prevalent theory of the luminiferous ether [the hypothetical substance through which electromagnetic waves travel that had been proposed by Aristotle and was subsequently used by several optical theories for the propagation of light, which was believed to be impossible in "empty" space]. The Michelson-Morley experiment became "what might be regarded as the most famous failed experiment to date...": a then-surprising finding that eventually led to special relativity. The Michelson-Morley interferometer was mounted on a stone slab floating in an annular trough of liquid mercury in the basement of Western Reserve University's Adelbert Dormitory, which, at least from a public health perspective, was not the best place for a vat of liquid mercury! This historic experiment is memorialized in several places on campus as can be seen on a self-guided walking tour (Appendix 2). There have also been eight Nobel laureates in Physiology or Medicine who have been affiliated with CWRU, including John Macleod (1923, discovery of insulin), Corneille Heymans (1938, carotid sinus reflex), Frederick Robbins (1954, polio vaccine), Earl Sutherland (1971, action of hormones, particularly adrenaline), George Hitchings (1988, chemotherapy), Alfred Gilman (1994, discovery of G-proteins and their role in signal transduction), Ferid Murad (1998, studies of nitric oxide as a signaling molecule), and Paul Lauterbur (2003, development of MRI).

#### Some Background on the Dittrick Medical History Center:

The venue for this year's meeting is the Dittrick Medical History Center, one of the preeminent facilities for medical history in North America. The Dittrick Museum has an unparalleled collection of medical artifacts, including a world-class collection of diagnostic instruments, some of which are show-cased in the Blaufox Hall of Diagnostic Instruments. Some additional neurological instruments will be shown during the meeting. The Dittrick Museum also houses an

outstanding collection of rare classic works in anatomy, the Charles Darwin Collection (of books, manuscripts, and letters), the Sigmund Freud Collection, the Cole Collection of Venereals, and unique artifacts in the history of phrenology. The Dittrick Museum's collection of paintings and prints includes the painting of *Harvey Cushing* (1908) by American painter Edmund Tarbell (1862-1938), which in 1916 set "a record price for an American picture by a living artist," the painting *Medical Still Life* (1896) by American painter De Scott Evans (1847-1898), a print of the popular masterpiece *The Doctor* (1893) by English painter and illustrator Sir Luke Fildes (1843-1927), a print of the powerful allegorical *Der Arzt* (1920) by the controversial Austrian painter Ivo Saliger (1894-1987), and various medically oriented satirical prints by English caricaturist Thomas Rolandson (1756-1827) that were produced during the reign of George III.

#### Some Information on Nearby Sites of Interest:

The Dittrick Museum, within "University Circle," is across the street from Severance Hall where the Cleveland Orchestra performs, and a short walk from the Cleveland Museum of Art, the Cleveland Botanical Gardens, and the Cleveland Museum of Natural History. The Cleveland Museum of Art is one of the top comprehensive art museums in the U.S. and it is free. The Cleveland Museum of Natural History has the usual collection of dinosaur skeletons and such, but it also houses the Hamann-Todd Osteological Collection—the world's largest research collection of anthropoid and human skeletons, comprising 3,100 modern human and more than 900 non-human primate skulls and skeletons.

The gala dinner will be held at Western Reserve Historical Society's Crawford Auto/Aviation Museum.

There is truly something for everyone in Cleveland. For example, downtown is the Cleveland Arcade, an architecturally elegant multi-level shopping and dining area within walking distance to the House of Blues, Quicken Loans Arena (the home of the Cleveland Cavaliers basketball team led by LeBron James), Playhouse Square (the largest performing arts center outside of New York, where one can attend Broadway shows, plays, musicals, opera, or the ballet), the Horseshoe Casino, and the Rock & Roll Hall of Fame. Other sites of interest include the Museum of Contemporary Art (MOCA), the Greater Cleveland Aquarium, the Cleveland Zoo, and the beautiful St. Theodosius Russian Orthodox Cathedral.

#### Some Acknowledgements Concerning the Preparations for this Meeting:

I owe a great deal of gratitude to James Edmonson PhD, Chief Curator at the Dittrick Medical History Center, for co-sponsoring this event, for arranging a planning meeting on site, for helping to develop a series of special exhibits for attendees, and for giving the Frank Clifford Rose Memorial Lecture. His staff are truly remarkable as well, including Brandy Schillace PhD, Senior Research Associate and Public Engagement Fellow, Laura Travis, Photographer and Image Collection Manager, and Jennifer Nieves MA, Archivist and Museum Registrar. They showed me tremendous kindness and hospitality. Without their help, there wouldn't even be a meeting this year!

During my residency, I asked Bob Daroff about the history of reflex hammers. He said that there wasn't a good paper on the subject and then sent me off to "write the paper," which I eventually did (*Neurology* 1989;39:1542-1549). When I asked Bob if he knew anyone who was knowledgeable about the subject, he suggested I contact Jim Edmonson. Jim, a world-renowned authority on the history of medical instruments, welcomed my enthusiasm and began gently educating me about how instruments were made in the 19<sup>th</sup> century. He showed me some instruments in the Dittrick collections, and introduced me to important primary sources for learning about medical instruments of that period, including various medical instrument catalogues. Jim and I subsequently wrote a paper together entitled, "The suspension treatment for tabes dorsalis: a case history of a therapeutic fad" (*Arch Neurol* 1990;47:701-704). Jim and I have been friends ever since, a friendship that spans a full three decades.

I would also like to thank Peter Whitehouse for giving the Oliver Sacks Memorial Lecture. From 1988 to 1989 I was Peter's NIA-funded fellow in Geriatric Neurology and Dementia at the Alzheimer Center of University Hospitals, while Mary Jo finished her pediatric neurology residency.

I would also like to thank Cate Storey for help with organizing the abstracts, Wayne Lazar for leading the Student Travel Award selection process, Sherry Ginn and Russell Johnson for arranging the on-line registration process, and Peter Koehler for facilitating many aspects of the notifications for this event. Cate and Peter, in particular, were a continued source of support and encouragement throughout this process.

Among my colleagues, I would also like to recognize Jim Edmonson, Cate Storey, and Andy Waclawik for collaborating so wonderfully in the preparations for the Symposium on "Instruments in the History of the Clinical Neurosciences," and similarly Peter Koehler, Stephen Reich, Chris Boes, and David Burkholder for collaborating so wonderfully in the preparations for the Symposium on "The Founding of the American Academy of Neurology."

Finally, and most importantly, I would like to thank my wife, Mary Jo, for all the support she has provided as I made preparations for this meeting. Although not a member of the Society, she also spent hours making the catering arrangements and arrangements for the Gala Dinner. We will celebrate our 36<sup>th</sup> wedding anniversary on our way home from this meeting. According to Hallmark—perhaps not an entirely reliable source—antiques should mark the 36<sup>th</sup> wedding anniversary. This meeting on medical history, and antique medical instruments and books, serves well as her anniversary gift to me. But she has really given me much more for which I am forever grateful: a wonderful life filled with great joy in our shared experiences and our sons.

### Welcome:

On behalf of the ISHN Board and the meeting committees, and Jim Edmonson and the Staff of the Dittrick Medical History Center, I hope that you will enjoy the many educational opportunities offered by this year's Congress and the Dittrick Medical History Center, the many wonderful cultural and entertainment offerings in Cleveland, the unique opportunities to experience moments of peace and wonder in the local, state, and national parks in and around the city, and the chance to reconnect with friends and colleagues from around the world. Consider



taking a stroll along the Lake Erie waterfront, or for the more ambitious, consider a short side trip for hiking in the beautiful settings of either Holden Arboretum in Kirtland, Ohio (23 miles east of Cleveland), the dozen or more state parks near Cleveland, or the Cuyahoga Valley National Park (20 miles south of Cleveland).

Thank you for attending this year's ISHN meeting.

With best regards,

Professor Douglas J. Lanska  
ISHN President



# Andreas Vesalius

*de Humani Corporis fabrica* (1543, 1555)



## **IMPORTANT MEETING ARRANGEMENT DETAILS**

### **Schedule:**

**Registration is at 08:00 daily**

**The morning sessions begin at 08:30**

**There is a 30-minute coffee break midmorning with snacks**

**Lunch is provided on site from 12-1 daily**

**The afternoon sessions begin at 1:00**

**There is a 30-minute coffee break midafternoon with snacks**

### **Lecture Information:**

**General lectures are 30 minutes. Please reserve 5-10 minutes of this time for questions. The session chairs will ask speakers to stop if they exhaust their time, as continuing is not fair to the other speakers.**

**There are two invited named lectures (Tuesday and Friday) and the Presidential Lecture (Thursday). Each of these is 60 minutes.**

### **Symposia:**

- 1. Instruments in the History of the Clinical Neurosciences (Tues)**
- 2. The Founding of the American Academy of Neurology (Wed)**

### **Special Events:**

**Special hour-long guided and interactive museum exhibits have been arranged daily.**

- 1. Guided Tour of the Dittrick Medical History Center with the Chief Curator (Tues)**
- 2. Dissection of the Brain in Woodcut: A Visual Exploration of Renaissance Anatomy from Gersdorff to Vesalius (Wed)**
- 3. Visualizing the Brain in Books: Early Images that Shaped Neurology (Wed)**
- 4. Examining Neurological Instruments and Other Artifacts of the Dittrick Museum of Medical History (With a Comparison to Artifacts of Modern Instrument Development) (Thurs)**



5. Examining Images in Rare Books of the Dittrick Medical History Center (e.g., Vesalius, Estienne and de la Rivière, Eustachius, Willis, Bartholin, d'Agoty, Bell) (Fri)

**The Gala Dinner is Thursday at Western Reserve Historical Society's Crawford Auto/Aviation Museum.**

**Special Meetings:**

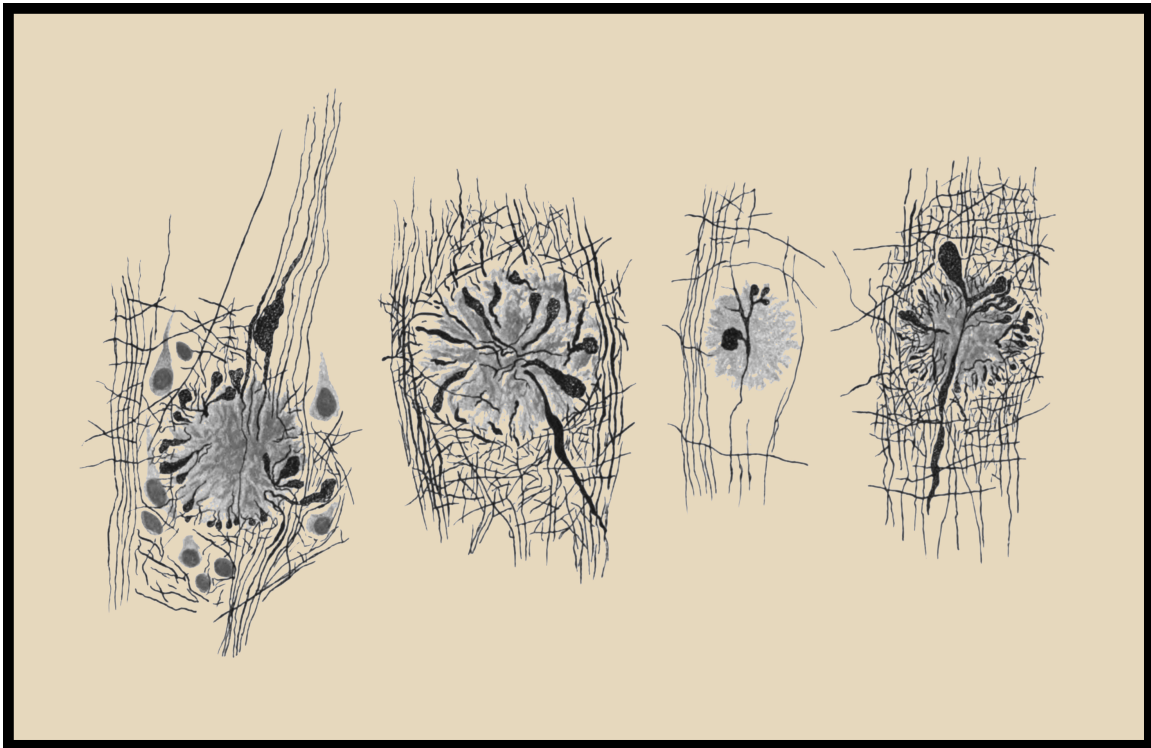
**The ISHN Board and JHN Editorial Board meetings are Tuesday evening.**

**Student Travel Awards:**

**There are three Student Travel Award winners (USA, Netherlands, Malaysia/Russia).**

**Adjournment:**

**The meeting adjourns with the passing of the gavel on Friday, June 22, at 4:00 PM.**



**Neuritic plaques in Alzheimer's disease (Oscar Fischer, 1907). Montage by DJ Lanska.**

# MEETING AT A GLANCE

## **June 19 (Tuesday)**

### **Tues AM**

Chairpersons: Axel Karenberg, Gül Russell

General Lectures x 2

### **Coffee Break**

**Symposium: Instruments in the History of the Clinical Neurosciences  
Dedicated to James Edmonson, PhD**

**James Edmonson - Frank Clifford Rose Memorial Lecture:** The tale of three trephines: Surgeons and their surgical-instrument makers in Britain, France, and America in the 19th century.

Symposium Lectures x 2

### **Lunch**

### **Tues PM**

Chairpersons: Stephen Reich, Chris Boes

Symposium Lectures x 4

### **Coffee Break**

**Guided Tour of the Dittrick Medical History Center**

**Welcome Social**

**Adjourn at 5:30 PM**

**JHN Editorial Board Meeting 5:30 PM**

**ISHN Board of Director's Meeting 6:30 PM**

**JHN Editorial Board and ISHN Board of Director's Dinner with Spouses 7:30 PM**

**Self-guided walking tour of Case Western Reserve University, highlighting the scientific accomplishments of Michelson and Morley**

## **June 20 (Wednesday)**

### **Wed AM**

Chairpersons: Wayne Lazar, Marjorie Lorch

General Lectures x 2

#### **Coffee Break**

General Lectures x 2

#### **Special Museum Exhibits:**

**Dissection of the Brain in Woodcut: A Visual Exploration of Renaissance Anatomy from Gersdorff to Vesalius**

**Visualizing the Brain in Books: Early Images that Shaped Neurology**

### **Lunch**

### **Wed PM**

Chairpersons: Andrew Waclawik, David Burkholder

**Symposium: The Founding of the American Academy of Neurology - Dedicated to Robert B. Daroff, MD, FAAN**

Symposium Lectures x 4

#### **Coffee Break**

Symposium Lectures x 3

### **Adjourn at 5:00 PM**

**“Wade Oval Wednesday”:** Enjoy a FREE concert Wednesday night in Wade Oval from 6:00-9:00 P.M. in the heart of University Circle – all within walking distance from the Dittrick Medical History Center and nearby hotels. Food trucks, vendors, and activities are all family-friendly. Bring a picnic or purchase delicious treats from vendors on site. Select University Circle museums are open late on Wednesday.



## **June 21 (Thursday)**

### **Thus AM**

Chairpersons: Boleslav Lichterman, Lorenzo Lorusso

General Lectures x 2

### **Coffee Break**

**Douglas J. Lanska - Christopher U.M. Smith Presidential Lecture:** Revisiting the Decorative and Historiated Initials in the Basel Editions of Works by Vesalius

**Special Museum Exhibit: Examining Neurological Instruments and Other Artifacts of the Dittrick Museum of Medical History (With a Comparison to Artifacts of Modern Instrument Development)**

### **Lunch**

### **Thus PM**

Chairpersons: Eelco Wijdicks, Julien Bogousslavsky

General Lectures x 3

### **Coffee Break**

General Lectures x 2

### **Adjourn at 4:00 PM**

**Gala Dinner – Western Reserve Historical Society's Crawford Auto/Aviation Museum**

## **June 22 (Friday)**

### **Fri AM**

Chairpersons: Catherine Storey, Peter Koehler

General Lectures x 2

### **Coffee Break**

**Peter J. Whitehouse - Oliver Sacks Memorial Lecture:** Connecting degenerative mythologies: From Meynert's brain psychiatry to Sacks' narrative neurology

**Special Museum Exhibit: Examining Rare Books of the Dittrick Medical History Center**  
(e.g., Vesalius, Estienne and de la Rivière, Eustachius, Willis, Bartholin, d'Agoty, Bell)

**Lunch**

**Fri PM**

Chairpersons: Stan Finger, Douglas Lanska

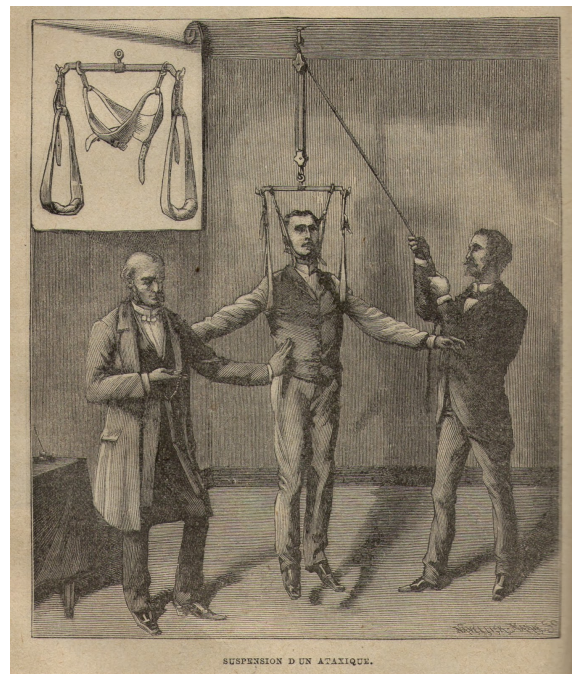
General Lectures x 2

Student Travel Award Lecture x 1

**Coffee Break**

Student Travel Award Lectures x 2

**Adjourn and the passing of the gavel at 4:00 PM**



**Suspension therapy using Sayre's apparatus in a patient with tabes dorsalis.**