

# October 2015 SUP Newsletter

## Message from the President

Dear microscopy colleagues,

As the temperatures become milder and the leaves start to turn, I am reminded that it's time for a fall newsletter. Herein is an update on society activities and news. Of particular note are Dr. Allan Tucker's award, Dr. Gary Mierau's Ultrastructural Pathology course, and updates on several EM conferences, including the SUP companion meetings at USCAP 2015 and 2016, and the UltraPath XVII in Lisbon.

As always, if you have suggestions for the mission of our society, don't hesitate to contact me or any member of the SUP Executive Committee. Addresses can be found on our website at [www.ultrapath.org](http://www.ultrapath.org)

Very best regards,  
Sara Miller, President SUP

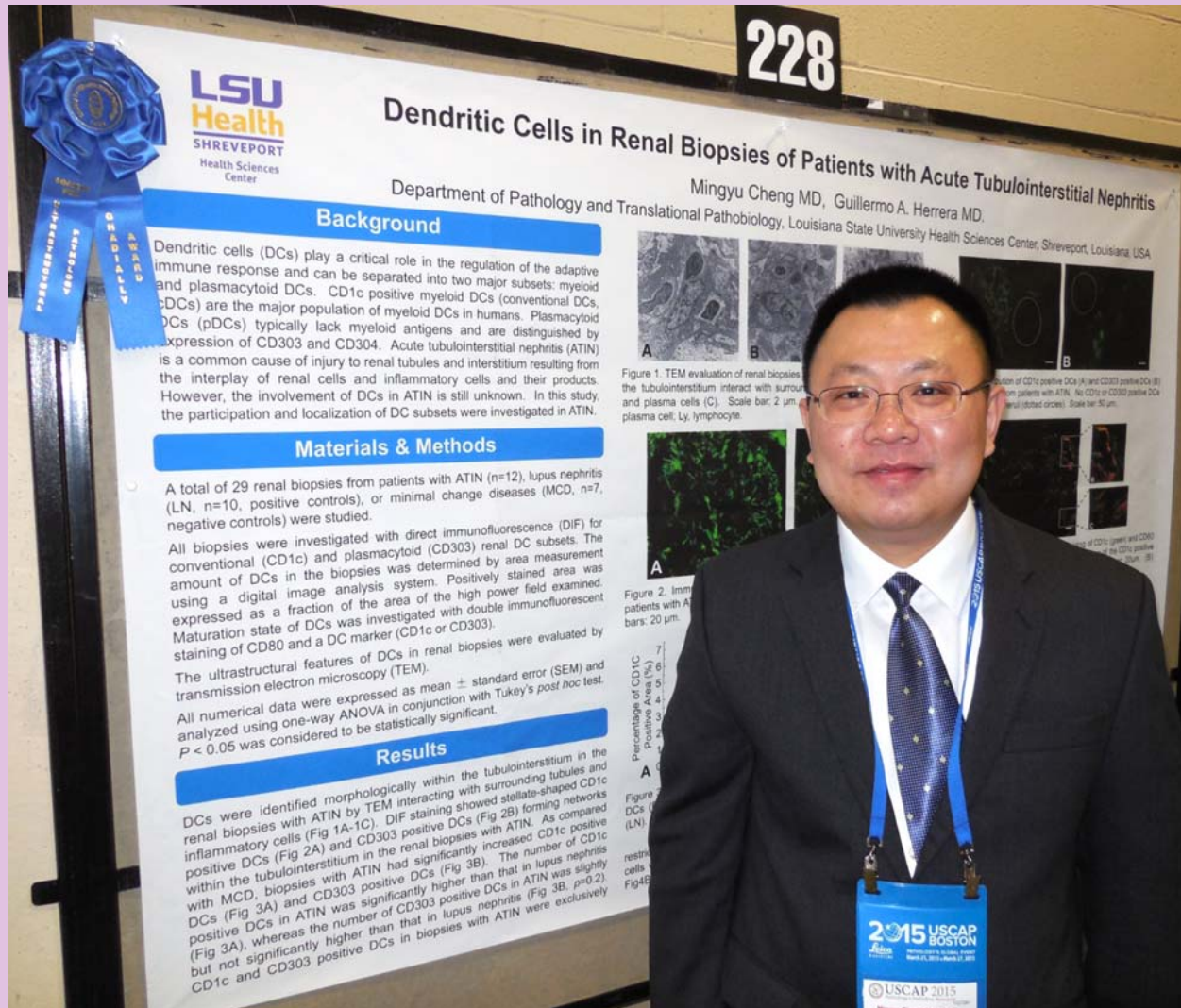


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## Awards

### Ghadially Award

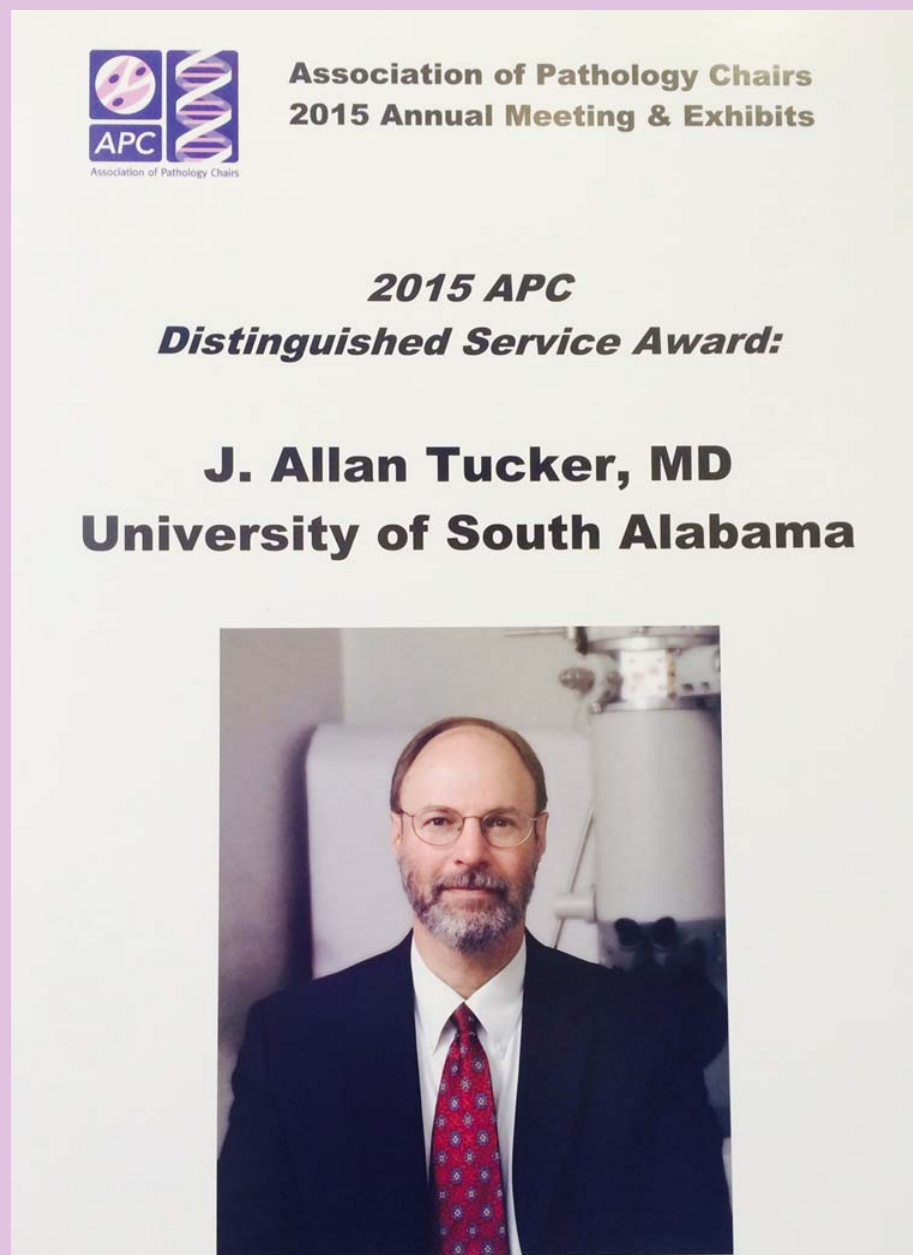
**Dr. Mingyu Cheng** won the 2015 Ghadially Award at the SUP companion meeting to USCAP 2015 in March for best ultrastructure poster. The title of his presentation was “Dendritic Cells in Renal Biopsies of Patients with Acute Tubulointerstitial Nephritis”. Congratulations Mingyu!



**Mingyu Cheng, MD.** Louisiana State University Health Sciences Center, Department of Pathology and Translational Pathobiology, Shreveport, LA, USA

## Distinguished Service Award

At the 2015 meeting of the Association of Pathology Chairs in San Diego in July, our own **Allan Tucker, MD** won the Distinguished Service Award for his tremendous service to pathology and education. I have known Dr. Tucker for decades and was totally blown away as his MANY contributions were read; I had no idea of most of the things he's done. Though very active in numerous organizations, he was never one to boast and quietly changed things for the better under his leadership. He has championed our own society and served as president and then treasurer for many years. Before leaving Duke University, he was head of Surgical Pathology, and then he moved to the University of South Alabama where he became chair of Pathology. He taught a popular elective rotation in EM to pathology residents at the University of South Alabama. Allan is extremely entertaining and funny and never takes himself too seriously. What a joy to be around him! Congratulations, Allan; it is a well-deserved honor.



Picture of large poster at the APC meeting

## SUP at USCAP, March 20, 2015

Our SUP Companion meeting to the USCAP meeting was held at the Hayes Convention Center in downtown Boston and was well attended. The program planned and moderated by Anne Buckley, MD, PhD and David Howell, MD, PhD, was on muscle pathology: “**Diagnosis of Disease in Cardiac and Skeletal Muscle: A Multidisciplinary Approach**”. Topics were as follows:

From Morphology to Molecular Genetics: Role of the Pathologist in Diagnosis of Muscle. M Weidenheim, MD

The Role of Muscle Biopsy Pathology in Diagnosing Genetic Myopathies. Steven A Moore, MD, PhD

Diagnosis of Autophagic Vacuolar Myopathies: The Role of Immunohistochemistry and Electron Microscopy. Marta Margeta, MD, PhD

Electron Microscopic Correlates of Myocardial Disease. Louis R DiBernardo, MD

Electron Microscopic Findings in Skeletal Muscle Biopsies. Anne F Buckley, MD, PhD, and Edward H. Bossen, MD

## M&M, August 2-6, 2015

The Microscopy and Microanalysis meeting, held in Portland, August 2-6, was excellent. In addition to lovely weather of ~75° everyday (It had been 95° the previous week—Yikes! We lucked out.), the **Diagnostic EM Focused Interest Group** had an informative symposium that would have been of interest to all SUP members. Organized by **Jay Jerome, PhD, Jon Charlesworth, Greg Ning, and Betty Thompkins**, it included numerous talks utilizing EM in diagnosis. Platform presentations were as follows, and there were many posters:

(Invited) Ebola Virus Hemorrhagic Fever; CS Goldsmith

Microwave Assisted Rapid Diagnosis of Plant Virus Diseases by TEM; B Zechmann, G Zellnig

Immunolectron Microscopy Reveals Varied Surface Expression of Potential Vaccine Targets of *Chlamydia trachomatis*; R-C Hsia, JM Sotiris, PM Bavoil

(Invited) EM Detection of Viruses in Organ Transplant Patients; SE Miller, DN Howell

Prospects for High Resolution Analytical Electron Microscopy of Organic Crystalline Particles; J Cattle, M S'ari, N Wilkinson, N Hondow, A Brown, R Brydson

(Invited) The Wisconsin Electron Microscopy Diagnostic Proficiency Program; CA Radi, SE Miller, C Goldsmith, K Toohey-Kurth

(Invited) Micro Computed Tomographic X-ray Imaging (Micro CT): A Versatile and Non-Destructive Method for Biological Specimens; JC Williams

Nanoscale 3D Refractive Indices Mapping on Native Cheek Cells by Axial Scanning Transmission Electron Tomography; Y Li, J Wu, R Bleher, V Dravid, V Backman

(Invited) Is Electron Microscopy Relevant Anymore in Diagnosis of Disease? WT Gunning

## **ULTRASTRUCTURAL PATHOLOGY 101: Fundamentals of Diagnostic Electron Microscopy (Estes Park, CO), September 20-23, 2015**

This “crash course” in ultrastructure was conceived and organized by **Gary Mierau, PhD** and assisted by **Eric Wartchow**. Its purpose was, not only to teach basic ultrastructure, but to create a group of like-minded microscopists for the purpose of support and information. It was completely sold out to 40 participants, with folks on a long waiting list. From all accounts by attendees, it was a huge success. The program follows (attendee presenters are listed in [green](#)):

Sunday – September 20, 2015

4:00 Hotel check-in (Main Hotel)

4:00 Meeting registration, orientation, reception (Lodge)

7:30 Review of Cell Structure

Monday – September 21, 2015

6:30 Breakfast

8:00 Welcome and introductory remarks

8:30 Management of the EM Service

10:00 Break

10:30 Renal disease

11:30 Liver disease

12:30 Lunch

1:30 Proffered presentations: [Steven Kramer](#); [Kim Ingersoll](#); [Sara Abbott](#); [John Van Arnam](#)

2:00 Tour Group 1: Guided tour of Rocky Mountain National Park

2:30 Tour Group 2: At leisure to pursue individual interests

6:00 Dinner

7:00 Discussion session

Tuesday – September 22, 2015

6:30 Breakfast

8:00 GI disease

8:30 Metabolic storage disease

9:00 Respiratory disease

10:00 Break

10:30 Hematologic disease

11:00 Skin disease

11:30 Muscle disease

11:45 Group photo

12:30 Lunch

1:30 Proffered presentations: [Veena Rajaram](#); [Levina Dear](#); [Christopher Hayden](#); [Bart Wagner](#)

2:00 Tour Group 2: Guided tour of Rocky Mountain National Park

2:30 Tour Group 1: At leisure to pursue individual interests

6:00 Dinner

7:00 Discussion session

Wednesday – September 23, 2015

6:30 Breakfast

8:00 Neoplastic disease

9:00 Open forum/Summation

10:00 Dismissal (Check out time 11:00)



**The Stanley Hotel, Estes Park, CO**



**Participants in UltraPath 101, September, 2015 (Photos sent by Dr. Mireau)**

**Many thanks, Gary, for your insight and tremendous effort in conducting this valuable course!!!**

## SUP at USCAP 2016

The companion meeting to the USCAP conference will be held on March 12, 2016 at the Washington Convention Center in Seattle, WA. **Guillermo Herrera, MD, PhD** has organized a fantastic program on **Small Blue Cell Tumors** and will moderate the session. Speakers and topics are:

Small blue cell tumors in the lung. Victor Roggli, MD

Small blue cell tumors in children. John Hicks, MD, PhD, DDS

Coffee Break. Juan Valdez

Cytology of small blue cell tumors. Elba Turbat-Herrera, MD

Small blue cell tumors in soft tissue and bone. Cyril Fisher, MD, DSc, FRCS

## UltraPath XVIII

Our next SUP meeting will be held at the Calouste Gulbenkian Foundation, 11-15 July, 2016 in Lisbon, Portugal. It is being organized by **Antonio Pedro Alves de Matos, PhD**, along with a distinguished committee composed of **Catarina Bernardes, PhD, José Martins dos Santos, MD, PhD, and Peter Ingram, PhD. Josep Lloreta-Trull, MD, PhD** will conduct a pre-conference basic ultrastructural pathology course. Information can be found at the conference website: <http://congress.ultrathxviii.org/>



## Lisbon

For travel planning purposes, note that the date of our SUP meeting is 2 weeks before the M&M (the Microscopy Society of America meeting) in Boston (July 24-28, 2016).

## Retirement

**John Shelburne, MD, PhD**, officially retired in September after an illustrious career of over 4 decades. Dr. Shelburne completed the MD, PhD program and a residency in Pathology at Duke Medical Center. He studied with Dr. Benjamin Trump, whom many of you know to have been a prolific and expert ultrastructural pathologist. John was on the Duke Pathology faculty and served as interim chair from 1989-91. During this time, he served as Head of Pathology and Laboratory Services at the Durham VA Hospital. From there, he was promoted to Chief of Staff of the VA Hospital where he served for a decade and a half. When I asked John what he was going to do in retirement, one of the things he mentioned was to be hired back at the VA Hospital for service as needed. What a guy—just keeps on giving. I do happen to know that he loves “spinning” (of the bike kind) and is in great shape. He owns a couple of gyms and will enjoy spending more time there.

At his retirement party, numerous folks spoke about John’s many achievements and dedication to patient care, but the most frequent comment was about how nice he is.

An expert in ultrastructural pathology, one to whom we go for second opinions, Dr. Shelburne has served as both president and treasurer of the Society for Ultrastructural Pathology. He also planned and hosted UltraPath IX at the Grove Park Inn, Asheville in 1998.

## “Ultrastructural Pathology”

**Dr. Guillermo Herrera** is now the editor-in-chief of the journal *Ultrastructural Pathology* and is working with the publisher to obtain a subscription rate that individuals can afford. If you would like information on subscribing or submitting a manuscript to it, contact him at [gherr1@lsuhsc.edu](mailto:gherr1@lsuhsc.edu)

## Obituary

**Dr. Feroze Novroji Ghadially** passed away at his home on December 28, 2014. He was an expert ultrastructural pathologist and had published many books and over 200 articles on normal and diseased tissues and cells. Originally from Bombay, he held numerous degrees and honors: MD, PhD, DSc (Lond), DSc (Guelph), FRCPPath, FRCP(C), FRSA, and Isaak Walton Killam Laureate of the Canada Council. His interests and expertise were wide, including cell architecture; synovial joints and articular tissues; skin and hair; and lymphomas, sarcomas, carcinomas, and other tumors. In addition, he was interested in aquaculture and wrote on filtration systems for daphnia tanks and pathology in fish and other animals.



Some of his notable books are listed below, and while published some time ago, are still valuable resources and frequently can be found from used book sellers:

Ultrastructural Pathology of the Cell: A Text and Atlas of Physiological and Pathological Alterations in Cell Fine Structure, 1975

Ultrastructural Pathology of the Cell and Matrix: A Text and Atlas of Physiological and Pathological Alterations in the Fine Structure of Cellular and Extracellular Components, 2<sup>nd</sup> ed, 1982

Ultrastructural Pathology of the Cell and Matrix: A Text and Atlas of Physiological and Pathological Alterations in the Fine Structure of Cellular and Extracellular Components, 3<sup>rd</sup> ed, 1988

Ultrastructural Pathology of the Cell and Matrix, 4<sup>th</sup> ed, 1997

Diagnostic Electron Microscopy of Tumours, 1980

Diagnostic Electron Microscopy of Tumours, 2<sup>nd</sup> ed, 1985

Ultrastructure of Synovial Joints in Health and Disease, 1969

Fine Structure of Synovial Joints: A Text and Atlas of the Ultrastructure of Normal and Pathological Articular Tissues, 1983

Diagnostic Ultrastructural Pathology: A Self-Evaluation Manual, 1984

Pet Library's Advanced Aquarist Guide, 1969

Dr. Ghadially emigrated to England in the 1960s and was first introduced to the electron microscope at the University of Sheffield. When he came to Canada, he worked in the Department of Pathology at the University of Saskatchewan, and after retiring in the 1980s, he moved to Ottawa where he lived with and cared for his wife until his 90s; she died a couple months after he did.

In 1981, he won one of Five Killam Prizes, each having a value of \$100,000, annually awarded by the Canada Council to eminent Canadian researchers who distinguish themselves in the fields of social, human, natural, or health sciences.

In 2012, the Society for Ultrastructural Pathology named an award in honor of Dr. Ghadially for his long time contributions to the field of electron microscopy and diagnostic ultrastructural pathology and his support of our society. This award of \$500 is offered yearly at the USCAP meeting and biennially at the UltraPath meeting to trainee/student winners of the best poster and best platform presentation at these meetings. When I spoke to him by phone in 2012 to ask permission to name the award for him, his mind was still sharp; he sounded like his old self—witty and knowledgeable, and he was still driving and grocery shopping. We will miss him.



**Feroze Ghadially (Photos courtesy of Vern Edwards)**