

PATH TO THE FUTURE



The Department of Pathology and Laboratory Medicine Welcomes Dr. David Grignon

The Department of Pathology and Laboratory Medicine at Indiana University School of Medicine is pleased to announce the appointment of David J. Grignon, MD as Centennial Professor of Pathology and Vice Chairman for Clinical Programs.



David J. Grignon, MD

Dr. Grignon was Chairman and Professor of the Department of Pathology at Wayne State University in Detroit Michigan from 2000 to 2006, as well as Chief of Pathology at Harper University Hospital in Detroit Michigan and Specialist-in-Chief of the Detroit Medical Center. He received his Medical Degree from the University of Western Ontario, London, Ontario, Canada, and served as Chief Fellow in surgical pathology at the University of Texas MD Anderson Cancer Center in Houston Texas. Dr. Grignon specializes in urologic surgical pathology and is a Fellow of the College of American Pathologist and Fellow of the Royal College of Physicians and Surgeons of Canada.

In addition to his clinical and administrative achievements, Dr. Grignon actively pursues research in prostatic neoplasia, urothelial carcinoma, renal cell

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carcinoma, and other renal neoplasms; classification of urinary tract tumors; and the role of biomarkers in predicting tumor behavior and determining the optimal strategy for therapy.

Dr. Grignon is widely recognized as one of the world's leading authorities in the pathology of the prostate, urinary bladder, and renal neoplasia. He has been named to the list of "Best Doctors in America" continuously since 1996. He has authored more than 250 clinical research papers, eleven book chapters and four textbooks, including the 4th series of the AFIP Atlas, *Tumors of the Kidney, Bladder and Related Urinary Structures*, and *Atlas of Surgical Pathology of the Male Reproductive Tract*. His book, *Gleason Grading of Prostate Cancer: A Contemporary Approach*, is a definitive reference for pathologists examining prostate biopsies.

With the addition of Dr. Grignon to our current staff of experts, Indiana University becomes the pre-eminent center for urologic pathology in the United States.

A New Look and a New Staff

This edition of *Path to the Future* introduces a new design. Recently the Trustees of Indiana University initiated an Integrated Image Program; this issue reflects our adherence to and cooperation with the program. We no longer use the University Seal as a watermark, and our department's official signature appears at the bottom of the cover page. Since the block IU is now standardized, we eliminated the 3D block IU within the shield design that had been the logo of this newsletter.

Beginning with the next issue, "*Path to the Future*" will be written and published by an expert team in the Pathology Media Educational Group. I have enjoyed designing and writing this publication to share news of our Department with our alumni, faculty and friends. Readers who are following the History of the Department, by Dr. Kathleen Warfel Hull, should be reassured that installments will continue with the new editor. I wish all our readers the very best.

Patricia Mantel

Inside this issue:

	page
Welcome to David J. Grignon, MD	1
New Design and New Staff for "Path to the Future"	1
News About our Residents and Fellows	2
History of the Department of Pathology and Laboratory Medicine: Part 7—written by Kathleen Warfel Hull, MD	4
Faculty News: Dr. Stephen Allen, Dr. William Cummings, Dr. Carrie Phillips, Dr. Daniel Smith, Dr. Steven Billings, Dr. Bernardino Ghetti	7



INDIANA UNIVERSITY

DEPARTMENT OF PATHOLOGY
AND LABORATORY MEDICINE
School of Medicine

News about our Residents and Fellows

Residents Completing Residency Program June 2007



Ayana K. Barbarin, MD

Ayana K. Barbarin, MD has taken a staff position at LabCorp in Louisville, KY.

Thomas Cibull, MD will begin a dermatopathology fellowship at the University of Arkansas for Medical Sciences.

Rachel Mathis, MD will begin a fellowship at Cincinnati Children's Hospital Medical Center.

Ryan McCarthy, MD will take a staff position at Ameripath.



Thomas Cibull, MD



Rachel Mathis, MD



Ryan McCarthy, MD



Jeffrey Rogers, MD

Jeffrey Rogers, MD will begin a fellowship in Cytopathology in our Department.

Michael Sever, MD is taking a staff position at Ameripath.

Antoinette Thomas, MD has accepted a Hematopathology Fellowship at the Cleveland Clinic.



Michael Sever, MD



Antoinette Thomas, MD

Graduates of Fellowship Program June 2007



Soon Bahrami, MD



Elena Bishop, MD



Matthew Carr, MD

Soon Bahrami, MD has taken a faculty position in Dermatopathology at the University of Louisville, Louisville, Kentucky

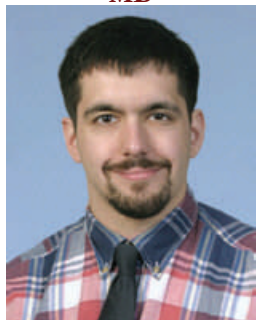
Elena Bishop, MD has accepted a position at Southern Community Laboratories in Christchurch, New Zealand.

Matthew Carr, MD is taking a staff position at Ameripath.

Christopher Poulos, MD is working in the Milwaukee County Medical Examiner's Office.



Michael Kucenic, MD



Christopher Poulos, MD



Kiran Chaturvedi, MD



Benjamin Coleman, MD



Rosen Dimitrov, MD

Kiran Chaturvedi, MD will be taking a staff position at Appalachian Regional Hospital in Hazard, Kentucky.

Benjamin Coleman, MD has taken a staff position at St. Mary's Hospital in Decatur, Illinois.

Rosen Dimitrov, MD will become a member of the faculty here in the Department of Pathology and Laboratory Medicine.

Michael Kucenic, MD will join our faculty in Dermatopathology.

Welcome to Our New Residents



Jill Ferguson, MD



Shanon Lacy, DO



Sarah Lott, MD

Jill A. Ferguson, MD comes to us from the Medical University of Ohio, Toledo, OH

Shanon R. Lacy, DO received her medical degree from the Chicago College of Osteopathic Medicine of Midwestern University, Downers Grove, IL

Sarah Lott, MD attended Rush Medical College in Chicago IL, and joins us as a third-year resident from Ball Memorial Hospital in Muncie, IN

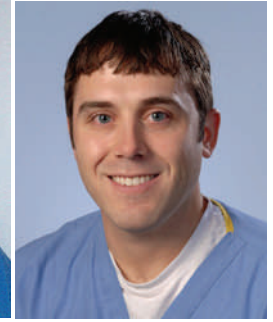
Helena N. Spartz, MD, PhD attended Indiana University School of Medicine in Indianapolis, IN for her



Helena Spartz, MD, PhD



Jonathan Tongson, MD



Alden Webb, DO

MD and graduate school at the Indiana University School of Medicine in Indianapolis to obtain a PhD in Microbiology/Immunology

Jonathan M. Tongson, MD received his medical degree from the American University of the Caribbean, Netherlands Antilles.

Alden R. Webb, DO completed his medical degree at the Chicago College of Osteopathic Medicine of Midwestern University in Downers Grove, IL. He also earned an MS in biology at IUPUI.

Welcome to Our New Fellows



Benjamin Adams, MD
Dermatopathology



David Burch, MD
Dermatopathology



Gabriela Gheorghe, MD
Hematopathology



Ralf Hatch, MD
Surgical Pathology



Mohammad Javed Mahboob, MD
Neuropathology



Nahid Medfhalchi Nanaji, MD, MDH
Hematopathology



Mumtaz K. Sajjad, MD, MS
Cytopathology



Jeffrey A. Rogers, MD
Cytopathology



Mumtaz K. Sajjad, MD, MS
Cytopathology

Benjamin Adams, MD - Dermatology Residency: Northeast Regional Medical Center.

David Burch, MD - Residency: National Naval Medical Center.

Gabriela Gheorghe, MD - Residency: University of Colorado Health Sciences Center.

Ralf Hatch, MD - Residency: Baylor college of Medicine.

Mohammad Javed Mahboob, MD - Residency: Howard University Hospital, Washington, DC.

Nahid Medghalchi Nanaji, MD - Residency: University of Illinois, Chicago.

Ramesh Ramanathan, MD - Residency: University of Wisconsin

Jeffrey A. Rogers, MD - Residency: Indiana University.

Mumtaz K. Sajjad, MD - Residency: Ball State University.



History of the Department of Pathology and Laboratory Medicine

Written by Dr. Kathleen Warfel Hull

Part 7: The WUMS Invasion: Dr. Edward Smith

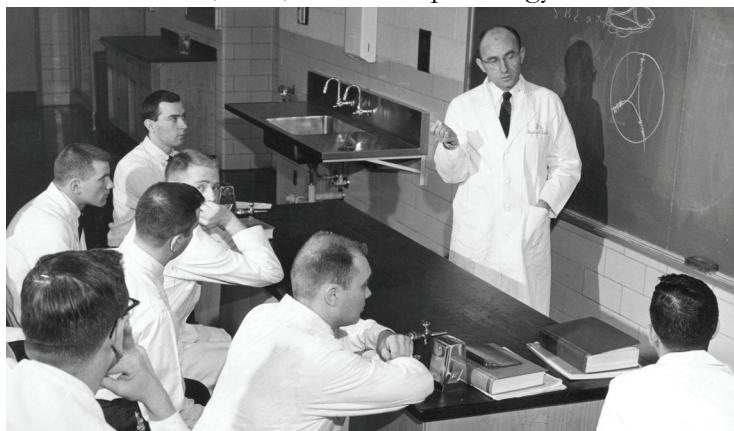


Dr. Edward Bryan Smith

Dr. Forry in 1957

In 1951-52, Edward Byron Smith, MD was recruited by Dean Van Nuys to be professor of pathology.⁸⁰ He became chairman of the Department of General Pathology as of July 1, 1952, replacing Dr. Forry who stepped down from the chair at age 65 but remained in the department as professor until 1957. Dr. Smith was a native Hoosier and a graduate of IU SOM in 1938. He had been an academic pathologist at several places, most recently assistant professor of pathology at Washington University School of Medicine (WUMS) in St. Louis, Missouri since 1949.⁸¹

When Dr. Smith came to IU SOM, he brought several people from WUMS with him. This group included Dale Metherd Schulz, MD, a WUMS pathology resident who



Dale Metherd Schultz, MD and Students 1960

came in 1951. He finished his residency training here as an instructor and became a faculty member, heading the autopsy service and the histopathology lab.

Assistant professor Frank Vellios, MD came in 1952. He had been a pathology resident (1946-48) and instructor (1948-50) at WUMS and then was at Columbia

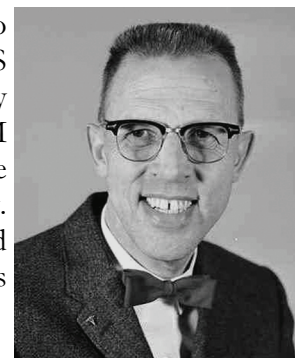


Frank Vellios, MD

University-Presbyterian Hospital in New York City working with Dr. Arthur Purdy Stout. Vellios joined the faculty at IU SOM as assistant professor of clinical pathology in 1952. He assumed responsibility for the surgical pathology service and the development of diagnostic procedures for carcinoma of the

cervix using the Papanicoulou smear technique. He also organized the surgical pathology educational program for junior medical students that was taught simultaneously at UH, VAH, and MCGH.

Parker Beamer, MD, Ph.D., who had been on the faculty at WUMS prior to going to Bowman Gray SOM, came to the IU SOM department in 1953, joining the faculty as professor of pathology. His Ph.D. in Bacteriology and Immunology supported his interest in microbiology.



Parker Beamer, MD, PhD

Lineage

Drs. Smith, Beamer, Vellios, and Schulz all had trained under pathologist Robert A. Moore



Beamer, Smith, Schultz and Vellios

at Washington University. The group took pride in tracing their "pathology heritage." They were the intellectual descendants and heirs of many medical giants - all the way back to the great "Father of Cellular Pathology," Rudolph Virchow.⁸²

The lineage was reported as follows: Rudolph Virchow's students in Berlin included Julius Cohnheim and Friedrich von Recklinghausen. After graduating from the College of Physicians and Surgeons in New York City, William Henry Welch went to Europe and studied with

he trained with Dr. Robert Moore. He was in the Army Medical Corps from 1943-46. He then was on the staff at the University of Pennsylvania and Baylor Medical School before returning to Washington University Medical School as assistant professor in 1949.

82. Thanks to Dr. Ron Rhatigan for his notes on the lineage.

80. John D. Van Nuys was Dean in 1947-64.

81. Dr. Smith was born in Petersburg, Indiana. He attended Hanover College and earned a BS from Indiana University Bloomington and an MD from Indiana University School of Medicine in 1938. He was an intern and resident in Cleveland before becoming an instructor in pathology at Washington University Medical School in St. Louis, where

both Cohnheim and von Recklinghausen. Welch became the first pathologist-in-chief and then the first dean at the Johns Hopkins School of Medicine. William Councilman also went to Europe to study pathology under Cohnheim, von Recklinghausen, Carl Weigert, and Hans Chiari. He joined Welch at Hopkins and later became the Shattuck professor of pathological anatomy at Harvard University, where he trained Howard T. Karsner. Karsner then also went to Germany and studied under Erdheim before becoming the founder and head of the Institute of Pathology at Western Reserve University in Cleveland, which is where he, in turn, trained Robert A. Moore.⁸³

More Faculty: Drs. Shively, Rosenbaum, Shafer, Hubbard, and Zeman

Dr. Amos Micheal, who was head of the medical student pathology teaching labs, resigned December 31, 1951.⁸⁴ Dr. Lynn Arbogast continued as director of the clinical laboratories. Although the IU *Bulletins* and *Registers* continued to list two separate departments (General Pathology and Clinical Pathology) and although Dr. Culbertson's name continued to be listed as chairman of the Department of Clinical Pathology until 1963, Dr. Culbertson did not take an active role in these years. Dr. Ed Smith's job was to merge the practice and teaching of

anatomic and clinical pathology on the campus, and there was definitely overlap of faculty in teaching and service work. (The two departments finally did officially become one again in 1963-64.)

Dr. Smith recruited John A. Shively, MD to join his department in 1954.⁸⁵ A memo from Dr. Shively sheds



Doctors Forry, Shively, and Smith

light on how the two departments worked as one in those days.⁸⁶ Although Shively was a full-time assistant professor of pathology paid by the university, Dr. Smith placed him at the Marion County General Hospital (later named Wishard Memorial Hospital)⁸⁷. He was hired for "his skills and credentials in clinical pathology and laboratory medicine not only for patient care at the General Hospital but also as a resource for the

sections and made advances in histopathologic techniques for studying the nervous system.

Hans Chiari, 1851-1916; assistant to Karl von Rokitansky in Vienna; head of the pathological-anatomical museum in Prague, the ordinaries of pathological anatomy in Strassburg; Arnold-Chiari malformation, Budd-Chiari syndrome

idiopathic necrosis of the middle layer of the aorta, pituitary dwarfism, and other conditions.

Howard T. Karsner, 1879-1970; founder of the Institute of Pathology at Western Reserve University; author of *Human Pathology a Textbook*, JB Lippincott, 1935; ASIP Gold-headed Cane Award 1952

Robert A. Moore, 1901-1971; professor and head of Pathology, and dean of the School of Medicine at Washington University; author of *A Textbook of Pathology; Pathologic Anatomy in Relation to the Causes, Pathogenesis, and Clinical Manifestations of Disease*, WB Saunders, 1944; co-author of seminal paper segregating embryonal carcinoma as a form of testicular cancer in 1946

84. Dr. Micheal returned in 1961 and resumed teaching at Indiana University School of Medicine as visiting professor 1961-62, then professor until 1974. He was a pathologist at Marion County General Hospital (WMH) during this time.

85. Dr. Shively was a 1946 graduate of the Indiana University School of Medicine. He had done a residency in clinical pathology at the South Bend Medical Foundation with Dr. Giordano, and then had been the pathologist at the Caylor-Nickel Clinic Hospital in Bluffton, Indiana, 1952-54. He later became a hematopathologist and faculty member at the University of South Florida.

86. Information gathered by Dr. J.W. Smith, 1997.

87. Indianapolis General Hospital was renamed Marion County General Hospital in 1951.

83. Rudolph Ludwig Carl Virchow (sometimes Rudolf), 1821-1902; founded *Archiv für pathologische Anatomie und Physiologie* (Virchow's Archives) in 1847; published *Die Cellularpathologie* in 1858; "*omnis cellula e cellula*"

Julius Friedrich Cohnheim, 1839-1884; Virchow's assistant at the Pathology Institute of Berlin University, later professor of pathology at the University of Leipzig; proved that white blood cells migrate through blood vessel walls and are the origin of pus; first to use frozen section technique.

Friedrich Daniel von Recklinghausen, 1833-1910; Virchow's assistant at the Pathology Institute of Berlin University; then professor of pathology at Würzburg and then Strassburg University; first to use metallic impregnation method in histopathology; published his description of neurofibromatosis in 1882.

William Henry Welch, 1850-1934; in Europe also studied or visited with Waldeyer, von Leyden, Ludwig, Meynert, Koch, Weigert, and others; set up first pathological lab at Johns Hopkins beginning in 1884; founding editor of *Journal of Experimental Medicine*, 1896; founded JHU Institute on the History of Medicine.

William Thomas Councilman, 1854-1933; Shattuck professor of pathology at Harvard; researched amoebic dysentery, diphtheria and other infectious diseases; first president of the American Association of Pathologists and Bacteriologists; Councilman's bodies in hepatic cells in yellow fever

Carl Weigert, 1845-1904; cousin of Paul Ehrlich; amanuensis to Rudolph Virchow; assistant to Julius Cohnheim; then chief of pathology section at Senckenberggergisches Pathologisch-Anatomisches Institute in Frankfurt; first to stain bacteria and demonstrate presence of bacteria in tissue



Group photograph taken during the 1950's showing pathologists and residents from multiple institutions

educational programs on the IU campus in both undergraduate and graduate medical education, particularly the residency training program in pathology at the university.⁸⁸ This provided some additional manpower that was sorely needed at the General Hospital in helping Dr. Paul Evans at the facility.⁸⁹ Another goal was to promote the integration of clinical and anatomical pathology into a single academic department by merging the pathology and the laboratory medicine or the clinical pathology departments.” “During this time [1954-57] the entire department at the General Hospital participated in the functions of the department at the University.” Among other things, Dr. Shively was responsible for organizing the clinical pathology course for the sophomore medical students.⁹⁰



Pathologists and residents at Marion County General Hospital; L-R: Drs. Emmett Pierce, Alvin Crawford, John Shively, Robert McDougal, and Paul Evans

Further evidence of cohesiveness in the pathology programs is seen in the “departmental” group photographs taken in that era, in which pathologists from Marion County General Hospital, Methodist Hospital, and the VAH are included with the full-time university faculty. And, conferences, journal club, and Friday night slide seminars were attended by pathologists and residents from all the hospitals.⁹¹ Both Marion County General Hospital and the Veteran’s Hospital had pathology residency programs in this era. The monthly slide seminars were held on the first Friday evenings and were known as meetings of the Central Indiana Pathology Association. Dr. Vellios served as moderator.

Another faculty member listed in the *Bulletins* at that time in the Department of General Pathology was Dr. David Rosenbaum, who had been an assistant, an associate and then an instructor in pathology. He became assistant professor of pathology in 1953 and was pathologist at the



Veteran’s Affairs Hospital 1954

new VAH on the medical campus, which opened in 1952.



William Shafer, DDS

William Gene Shafer, DDS was added to the Department of General Pathology as assistant professor of oral pathology in 1954-55. He had been instructor in histopathology at the IU School of Dentistry since 1950. Oral pathology as a distinct specialty had been recognized in 1948. The IU School of Dentistry established a free-standing Department of Oral Pathology, probably in 1960. Dr. Shafer served as chairman of that department until 1985. He wrote a classic textbook of oral pathology, which was first published in 1958 and which went into four editions as well as foreign language translations. He established a highly regarded training program in oral pathology, one in which his fellows spent time doing autopsy and surgical pathology in the IU SOM Department of Pathology at University Hospital. He became an internationally known expert in oral pathology and was named distinguished professor in 1971.⁹²

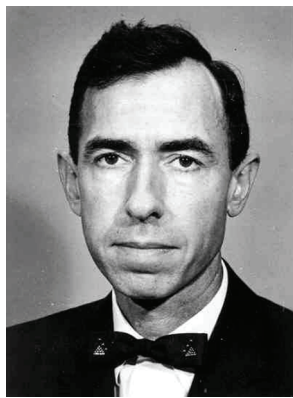
88. Four pathology residents were at MCGH, namely, Drs. Wei Ping Loh, Robert McDougal, Alvin Crawford, and Earl Green.

89. At the time Dr. Paul Evans was the only other pathologist at Marion County General Hospital. He later became director of the hematology lab at Methodist Hospital.

90. When Dr. Smith was not able to join the departments quickly, Dr. Shively left after 1½ years. Reportedly Arbogast was not in favor of merging. Without Shively, Dr. Paul Evans was the only pathologist at MCGH. Clinical pathology resident Dr. Robert McDougal helped out in surgical pathology at MCGH since he had already had surgical pathology training at Indiana University with Dr. Vellios.

91. Related by Robert McDougal, MD, resident in Anatomic Pathology at University Hospital 1953-54; CP and at Marion County General Hospital 1955-57.

92. Shafer, Hine, and Levy Textbook of Oral Pathology. Last edition printed in 1983. Dr. Shafer served as president of the American Academy of Oral Pathology and of the American Board of Oral Pathology.



J. Donald Hubbard, MD

In 1958, J. Donald Hubbard, MD joined the faculty as assistant professor of pathology and became the mainstay of the department's medical student anatomic pathology educational programs for several decades, finally retiring in 1990. Hubbard earned an MD degree at Johns Hopkins University SOM in 1951 and began his pathology training there. He was a pathology resident at IU SOM, 1954-56, and then instructor at IU SOM, 1956-58. He also taught the pathology courses for dental students (C607 and C608) and allied health students for many years.⁹³



Wolfgang Zeman, MD

When the neuropathologist Dr. Bailey was leaving IUSOM, Dr. Schulz took over the neuropathology lab at Larue Carter hospital and served as the local expert in neuropathology.⁹⁴ But shortly, Wolfgang Zeman, MD was recruited by Arthur L. Drew of the Department of

Neurology to be the head of neuropathology at IU SOM beginning in July 1960. Zeman had an MD degree (1945) from the University of Tübingen in Germany. He had studied psychiatry at the German Research Institute of Psychiatry and neurology at the University of Hamburg prior to coming to the United States to study neuropsychiatry at the University of Michigan (1951-52). He then had pathology training at the University of Arkansas and the University of Pittsburgh. Unlike his predecessor Dr. Bailey, Zeman's appointment was in the Department of Pathology: the Division of Neuropathology was taken out of the Department of Neurology at Larue Carter Hospital and placed in the Department of Pathology at Emerson Hall.⁹⁵ Dr. Zeman focused on research in the area of the sphingolipidoses. He also was a co-author of *Craigie's Neuroanatomy of the Laboratory Rat*.⁹⁶

93. A Dr. Cash is listed as professor of pathology in 1958-59 only. Nothing is known of this person. Professor MacFayden joined the pathology department in 1959, but he was located on the Indiana University Bloomington campus.

94. Dr. Schulz wrote the neuropathology chapter in the *Principles of Human Pathology* textbook mentioned elsewhere. According to Dr. Jans Muller, the department was not originally in favor of hiring Zeman, but rather hoped that Schulz would be appointed as neuropathologist. However, the wishes of the Department of Neurology prevailed, and Zeman got along well in the department.

95. Surgical Pathology did move to the Medical Sciences Building sometime before the early 1970's, but it is not clear when this occurred.

96. Zeman, Innes, and Craigie: *Craigie's Neuroanatomy of the Laboratory Rat*. Academic Press, 1963.

Faculty News



Dr. Stephen Allen is the first James W. Smith Professor of Clinical Microbiology.



Dr. Oscar W. Cummings was named the Director of Surgical Pathology.



Dr. Carrie Phillips will become Director of the Department's Residency program beginning with this year's program.



Dr. Daniel Smith is the first recipient of the Ralph Burgess Lingeman, Jr. Research Fund in Pathology.



A Reception was held on June 22 for **Dr. Steven Billings** who left our faculty to work in dermatopathology at the Cleveland Clinic in Cleveland, Ohio.



Dr. Bernardino Ghetti received the Chancellor's Professorship which is given to senior faculty with a record of distinguished accomplishment. **Page 7**



INDIANA UNIVERSITY

DEPARTMENT OF PATHOLOGY
AND LABORATORY MEDICINE

School of Medicine

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