

## Plastic Surgery in Chicago in the 20th Century

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In 1900, the Chicago Surgical Society was founded by 26 local surgeons, among them such giants as Christian Fenger, John B. Murphy and Nicholas Senn. All of the founders were general surgeons- in the broadest sense of the word- and all performed plastic surgical procedures as the need arose, but none was what we would call a “plastic surgeon”.

The first World War (1914-18) was different from previous wars in many ways. It was mainly a trench war and soldiers had the unfortunate habit of looking over the tops of trenches, only to have their faces mutilated--if they were lucky enough not to be killed.

In 1916, just after the horrible Battle of the Somme, Captain Harold Delf Gillies, an otolaryngologist in the Royal Army Medical Corps was sent to France, where he was appalled by the many facially crippled British soldiers he discovered- for whom there was no effective treatment. He asked for, and was granted permission to tackle the problem-and in so doing, became the father of British plastic surgery. All of the plastic surgeons in Britain and many in America- as well as the rest of the world-can claim Sir Harold Gillies as their professional ancestor, including his cousin Sir Archibald McIndoe in England; and J. Scott Tough and John Mustarde, O.B.E. in Glasgow, Scotland.

Sir Harold's counterparts in the U.S. army in World War I were Vilray P. Blair of St. Louis, Robert H. Ivy of Philadelphia, and Varaztad Kazanjian of Boston. John Stage Davis, their contemporary in Baltimore, was apparently the first surgeon in America to limit his practice to plastic surgery- of the entire body, from head to toe. Dr. Davis was the first to describe the common “Z-plasty”.

In 1921, four Chicago surgeons- all with M.D. and dental degrees, were among the 32 American and Canadian surgeons who founded the American Association of Oral Surgeons. These four were Frederick Merrifield, William Logan, Thomas Gilmer and 73-year old Truman Brophy. The double-degree requirement for membership was dropped in 1932. The name of the organization was changed in 1936 to the American Association of Oral and Plastic Surgeons, and in 1942, to the American Association of Plastic Surgeons. Soon general surgery rather than oral surgery came to be the principal background of plastic surgeons in Chicago and elsewhere.

[Plastic Surgery at Northwestern:](#)

In 1959, Orion Stuteville, D.D.S., M.D., started a plastic surgery residency at Cook County Hospital. In 1967 his program became affiliated with Northwestern University in order to provide broader training for the residents. In 1957, B. Herold Griffith was recruited from the Cornell plastic surgery program and to develop a plastic surgery program at Chicago Wesley Memorial Hospital, one of the two principal Northwestern affiliated hospitals. Dr. Griffith had been trained by Dr. Herbert Conway at Cornell, and by Drs. Tough, Gibson, and Mustarde in Glasgow. ADD IN DR. Griffith being sick, taking a year off, doing a landmark clinical paper in pressure sores, relation to RIC and spinal cord injury. Dr. Griffith was joined in 1967 by Peter McKinney who also had finished his training at Cornell under Dr. Conway. Dr. Griffith and Dr. McKinney began to prepare the application for approval of the Northwestern residency. At this time Dr. Stuteville's program at Cook County Hospital needed affiliations with a University and a private hospital to keep its accreditation. In order to rescue the County program, Dr. John Beal, Chairman of surgery at Northwestern accepted the County residency as the Division of Plastic Surgery at Northwestern with Dr. Stuteville as chief.

Over the next three years the service grew in stature and volume of cases. When Dr. Stuteville retired in 1970, Dr. Beal appointed Dr. Griffith as Chief of Plastic Surgery. Since there were then twelve residents in the training program, he divided the service, with one section primarily based at the Northwestern Hospitals (Wesley, Passavant, Children's, Evanston, and the VA) and the other section primarily based at County. Residents in both sections spent time in both programs. Dr. Stuteville continued to run the program at County for a year, at which time he became chief at Loyola and took the County residency accreditation with him to that institution with Dr. Griffith's approval.

Dr. Griffith was Chief at Northwestern for 21 years. The attending staff at Wesley and Passavant Hospitals (that merged in 1973 to become Northwestern Memorial Hospital) consisted of Peter Drs. Griffith, McKinney, and Victor Lewis. Dr. Lewis joined the faculty after he completed his residency in plastic surgery at Northwestern in 1977. The entire faculty was voluntary, in private practice, and unpaid for their time spent with the residents. The first "full-time" faculty members were Drs. Kernahan and Bauer at Children's Memorial Hospital. The first microsurgical free tissue transfer at Northwestern was performed by Dr. Harris and Lewis, with residents Bruce Cunningham and Marie Christensen assisting. The residents received their pediatric experience at Children's Memorial Hospital. The other private hospital in the system was Evanston Hospital where the program was run by Dr. Frank Pirruccello, followed by Martin Sullivan and John Smith. Dr. Mitchell Grasseschi and Laurie Casas joined the faculty later. John, "Mitch" and Laurie all trained at Northwestern.

Since its inception in 1970, the Northwestern Division of Plastic Surgery has graduated 82 residents. Many have gone on to careers in academic plastic surgery and chiefs of services both

in the US and abroad. Ten of the first 58 were women—a very high number in those days. One of the residents, Arthur Howell, was the second African-American plastic surgeon in the U.S.

In 1991 Dr. Thomas A. Mustoe succeeded Dr. Griffith as chief, coming from the faculty of the Washington University of St. Louis and with his original training in otolaryngology at the Massachusetts Eye and Ear Infirmary and plastic surgery at the Brigham and Women's Hospital. Dr. Mustoe began the productive wound-healing laboratory that continues to this day. Clinically, he performed the first microsurgical breast reconstruction at Northwestern. Dr. Dan Ladin joined the full time faculty and stayed two years at the institution. The residency became one of the first official "integrated" programs in 1991 with a 3-1-3 structure. Prior to that, residents with 3 to 5 years of surgery training were admitted to the program, but the program did not require a completed residency for entrance. A mandatory year of research was incorporated into the program, designed as a way to improve the program, increase the maturity of the residents, and promote consideration of an academic career for finishing residents. Dr. Michael Byun was the first medical student admitted into the integrated plastic surgery program.

In 1994, Dr. Mustoe hired Dr. Neil Fine. Dr. Fine completed general surgery and plastic surgery at the Brigham and Women's Hospital, and developed a focus in microsurgical head and neck reconstruction and breast reconstruction. He also provided oversight to the first three years of the integrated residency.

Dr. Gregory Dumanian joined the full time faculty in 1996, coming from the Massachusetts General Hospital for general surgery, the University of Pittsburgh plastic surgery program, and fellowships in research and in hand surgery. He was recruited to be the first full time hand surgeon within the Northwestern Medical Faculty Foundation. Later to join the full time faculty were Dr. Julius Few who did his plastic surgery at Northwestern and became an attending in 2000, Dr. John Kim from Baylor and UCLA in 2004, and Dr. Rob Galiano. Dr. Galiano had been a medical student in Dr. Mustoe's laboratory for 4 years, before starting his training at the New York University Division of Plastic Surgery under Dr. Joseph McCarthy.

Over the years, there have been some notable changes within the members of "full-time" and "contributed services" faculty. Dr. Few left the division for private practice approximately 2007. Dr. Joseph Daw became a partner of Dr. Lewis for several years, before leaving for the University of Illinois Chicago (UIC) division of plastic surgery. Dr. Michael Lee subsequently joined Dr. Lewis in private practice, before starting a solo practice at Northwestern. Dr. Robert Walton joined the full-time group briefly before resuming his practice at a nearby private hospital. The latest change was the transition of Dr. Neil Fine from a full-time to a contributed services member in 2010.

Monies from the estate of Dr. Orion Stuteville endowed the Stuteville chair now occupied by Dr. Mustoe. This chair was officially named in January, 2010. After 19 years, Dr. Mustoe stepped down as chief but remains a member of the full-time faculty. Dr. Dumanian was named chief of the division in November 2010.

#### Hand Surgery at Northwestern:

In 1916, the chairman of Surgery at Northwestern University Medical School, Allen Kanavel, published the first textbook of hand surgery, Infections of the Hand, that became the standard work in the field for the next 30 years. Kanavel understood many of the concepts of modern plastic surgery, including the use of surgery to treat extremity infections, and the treatment of mandibular osteomyelitis with a pedicled sternocleidomastoid flap.

Kanavel's student and then colleague, Sumner L. Koch, continued the development of hand surgery and founded, at Cook County Hospital, the first hand service in the United States. Another of Kanavel's students, Michael Mason, became Dr. Koch's associate, and they together with Harvey Allen developed one of the world's premier services for hand surgery and the treatment of burns. This group of physicians were later joined Drs. John Bell (a general surgeon) and William Stromberg, an orthopedist. The continuation of that group still exists today as the oldest continuous hand surgery practice now comprised of Drs. Gerald D. Harris and Thomas Wiedrich (plastic surgeons), and Daniel Nagle, John Stogin, and David Kalainov (orthopedic surgeons). Dr. Harris trained at the Buncke Clinic in San Francisco, brought with him the first microsurgical skills at our institution. Dr. Hampartsoum Kelikian, in orthopedics and separate from the hand surgery service, published his treatise in congenital hand surgery in the mid 1970's. Since 1975 the hand service at Northwestern has been a part of the Division of Plastic surgery. Dr. Harris became chief of the service upon Dr. Bell's retirement in 1987. Dr. Charles Carroll joined the hand surgery service in the late 1980's and has been a contributed faculty member in solo practice more recently. In 2007, Dr. Brian Hartigan (orthopedics) became head of hand surgery education, and that passed on to Dr. David Kalainov upon the untimely death of Dr. Hartigan. In 2010, it was agreed by orthopedics and plastic surgery that hand surgery would be officially a combined service between the two disciplines.

#### Plastic Surgery at Children's Memorial Hospital

In 1953, Clarence W. Monroe, Professor of Plastic Surgery at the University of Illinois, became chief of Plastic Surgery at Children's Memorial Hospital (CMH), one of Northwestern's McGaw Medical Center's main institutions, succeeding Frederick Merrifield whose main interests had been at Northwestern's Dental School. Dr. Monroe was joined by Dr. B. Herold Griffith at CMH in 1957 just after coming to Northwestern from Cornell Medical School in New York City. Dr. Monroe retired in 1974 and was succeeded as chief at CMH by Dr. Desmond A. Kernahan,

recruited from Winnipeg. One of the first surgeons in the U.S. to perform exclusively pediatric plastic surgery, Des was a New Zealander who had trained in England. He had an international reputation particularly for his work with cleft lip and palate patients. He had been chief of plastic surgery at the University of Winnipeg for 12 years before coming to Chicago. When Dr. Kernahan retired in 1986, he was succeeded as chief by Dr. Bruce S. Bauer who had trained in the Northwestern program. Also on the staff at CMH over the next two decades were Drs. Peter McKinney, Victor Lewis, Mitch Grasseschi, Jay Pensler, Frank Vicari, Pravin Patel, and Julia Corcoran. Dr. Bauer joined the North Shore University Health System in 2009 and stepped down as chief at Childrens.

#### Plastic Surgery at the Shriner's Hospital, Chicago Unit:

A key part of Northwestern's training program since 1970 has been at the Shriner's Hospital for Children located on the far west side of Chicago. It has had as its chief of plastic surgery successively Clarence Monroe, Frank Pirruccello, Martin Sullivan, John Smith, B.H. Griffith, and currently Pravin K. Patel. Tragically, Dr. Sullivan was murdered in his office in 1993 by a demented self-proclaimed Neo-Nazi who posed as a patient. In 2000, the Shriner's Hospital was designated as the Shriner's National Craniofacial Center owing largely to Dr. Patel's excellent work. For the past several decades, plastic surgery has been performed there as well by Dr. Mitch Grasseschi, a graduate of our program at Northwestern. Currently, the academic affiliations of the Shriner's Hospital include Dr. Grasseschi and Dumanian from Northwestern, and Dr, Patel and Morris from UIC.

#### Plastic Surgery at University of Illinois Chicago:

The first plastic surgery training program in Chicago was started shortly after the end of World War II by Paul W. Greeley at the University of Illinois at Chicago (UIC), St. Luke's Hospital, and the Edward Hines Jr. VAMC. Dr. Greeley was succeeded, in turn, by two of his former residents, Dr. John W. Curtin and Dr. Richard C. Schultz. The UIC program was then led by Michael E. Schafer (who had trained at Northwestern), and the current chief, Dr. Mimis Cohen.

#### Plastic Surgery at Rush:

In 1969 the Rush Medical School's charter was reactivated, and Rush Presbyterian-St. Luke's Medical Center split off from the UIC. John Curtin left his position as chief of UIC to become chairman of the Department at Rush. His successors at Rush have been Dr. Randall McNally and the current chief, Dr. John Polley.

#### Plastic Surgery at Loyola:

For some years, Wayne Slaughter was chief of plastic surgery at both Loyola University in Chicago and the University of Wisconsin in Madison. Dr. Stuteville succeeded Dr. Slaughter at Loyola in 1971 and was in turn succeeded in 1975 by Raymond Warpeha who had had his training at Cook County hospital and at Northwestern. His training included a D.D.S., M.D., and PhD degrees and board certification in general and plastic surgery. Dr. Warpeha was succeeded in 2000 by Dr. Mary McGrath who had been for a number of years chief of plastic surgery at George Washington University in D.C. She was the first woman to be chief of Plastic Surgery at an American medical school, the first woman to be elected a director of the American Board of Plastic Surgery, and the first female plastic surgeon to be a Regent and later first Vice President of the American College of Surgeons. More recently, Dr. McGrath was succeeded by Dr. Juan Angelots.

#### Plastic Surgery at the University of Chicago

For many years Dr. Dallas Phemister was chairman of surgery at the University of Chicago. His successor, Lester Dragstedt, did some plastic surgery, but for many years there was no “real” plastic surgeon at University of Chicago. Most of what plastic surgery was performed by a general surgeon, Dr. Hilger Perry Jenkins. The new chairman of surgery at the University of Chicago, Dr. Dwight Clark, wanted to get a division of plastic surgery started. However, Dr. Clark died of hepatitis nafter a terrible eight-month struggle. His interim successor, Dr. William Adams, only a few years from retirement, did not want to initiate any new programs, so no appointment was made.

Eventually, Adams’ successor brought Dr. Harvey Zarem from Baltimore to be the first chief of plastic surgery at the University of Chicago. A few years later, when Zarem moved to U.C.L.A., Dr. Martin Robson replaced him and was in turn succeeded by his former chief, Dr. Thomas J. Krizek. In a year or two Krizek was made chairman of surgery at the University of Chicago and he appointed Lawrence Gottlieb chief of plastic surgery. Robert Parsons, and Stuart Landa helped keep the residency program running there until Dr. Robert Walton took over as chief a few years later. Raphael Lee ran an active research laboratory. Lawrence Zachary and McKay McKinnon rounded out the faculty at that time. Most recently, Dr. David Song was appointed and is currently the chief of plastic surgery.

#### Chicago Plastic Surgery Organized Medicine Contributions:

In 1937 the American board of Plastic Surgery was founded. Dr. Sumner Koch was one of the founding directors, the only Chicagoan to be elected a Director until Paul Greeley in 1951, John Curtin in 1970, and B.H. Griffith in 1976.

Since then other Directors of the Board with ties to Chicago have been:

Thomas J. Krizek (1977) University of Chicago

Norman E. Hugo (1982) Northwestern University

Harvey A. Zarem (1982) University of Chicago

Martin C. Robson (1991) University of Chicago

Stephen H. Miller (1984) Northwestern University

Mary McGrath (1989) Loyola University

Bruce Cunningham (1996) Northwestern University

Peter McKinney (1999) Northwestern University

Thomas A. Mustoe (2006) Northwestern University

Chicagoans who have been Chairmen of the American Board of Plastic Surgery are B.H. Griffith (1981-82), Martin Robson (1996-7), Stephen Miller (1989-90) and Bruce Cunningham (2003-04).

In December 1965, the Chicago Society of Plastic Surgery was founded by board-certified plastic surgeons in Illinois, northern Indiana and southern Wisconsin. The first president was Joseph Kostrubala. In addition to providing a forum for the presentation of clinical and research papers, the society sponsors each year a visiting lecture-ship and a research competition for the residents in the 5 training programs in Chicago.

Many Chicago plastic surgeons have had leadership roles in many national organizations such as:

The American Society of Plastic and Reconstructive surgeons that has been based in Chicago for over 30 years (Presidents Paul Greeley, Norman Hugo and Bruce Cunningham).

The American Society for Surgery of the Hand (Presidents Sumner Koch, Michael Mason, John Bell and Daniel Nagle, all of Northwestern).

The American Association of Plastic Surgeons (Presidents Sumner Koch, Clarence W. Monroe, and Thomas Krizek).

American Society of Maxillo-Facial Surgeons (Presidents Richard Schultz, Victor Lewis, Orion Stuteville, and Stuart Landa)

The American Society for Aesthetic Surgery (President Peter McKinney)

Plastic Surgery Research Council (Chairman B.H. Griffith)

American Burn Association (President Martin Robson)