

## **CURRICULUM VITAE**

**Glenn William Kindt, M.D.**

### **Personal Data**

Birthplace: Alpena, Michigan  
Citizenship: United States  
Marital Status: Married

### **Office Address/Telephone**

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Box C-307  
University of Colorado Health Sciences Center  
12631 E. 17<sup>th</sup> Ave., Box C-307  
Aurora, Colorado 800045  
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### **Education**

High School: Alpena High School  
1943-1947 - Diploma

Undergraduate College: Michigan State University  
1947-1951 - B.S., Chemical Engineering  
Member of Tau Beta Pi,  
Engineering Honorary Society

Professional School: University of Michigan Medical School  
1955-1959 - M.D.  
Member of Alpha Omega Alpha,  
Medical Honorary Society

## **Graduate Training**

Internship:	University of Michigan Hospital, 1959-1960
Assistant Surgical Resident:	University of Michigan Hospital, 1960-1961
Neurosurgery Resident:	Boston Children's Hospital and Peter Brent Brigham Hospital, 1961-1962
	University of Michigan Hospital, 1962-1965

## **Teaching Appointments**

Medical University of South Carolina  
Charleston, South Carolina  
1965-1967

Instructor in Neurosurgery

University of California School of Medicine  
Davis, California  
1967-1969

Assistant Professor

Sacramento Medical Center  
Sacramento, California  
1967-1969

Director of Neurosurgery

University of Michigan Medical School  
Ann Arbor, Michigan  
1970-1976

Associate Professor,  
Section of Neurosurgery

1976-1981

Professor,  
Section of Neurosurgery

1979-1981

Acting Head  
Section of Neurosurgery

1969-1981

Director of Neurosurgical Laboratory

1976-1981

Director of Neurology-Neurosurgery  
Intensive Care Unit

1979-1981

Director of Head Protection Research  
Laboratory

1980-1981

Co-Director, University of Michigan Spinal  
Injury Center

University of Colorado Health Sciences Center

Denver, Colorado

1981 - 2001

Professor and Head  
Division of Neurosurgery

2001 – Present

Professor  
Department of Neurosurgery

**Consulting Positions:**

Denver, Colorado

US Veteran's Administration Hospital  
Children's Hospital  
Denver General Hospital  
Rose Medical Center

**Certification and Licensure:**

American Board of Neurologic Surgery,  
1967 - present

Medical Licenses:

Michigan	1960 - present
South Carolina	1965 - present
California	1967 - present
Colorado	1981 - present

**Military Service**

1951-1955, Air Force Lieutenant  
1952-1953, served in Korea,  
two Battle Stars awarded

**Honors and Awards**

1951

Tau Beta Pi - Engineering Scholastic Honorary

1959	Alpha Omega Alpha - Medical Scholastic Honorary
1962	Chosen to spend part of residency at Harvard University with D.D. Matson, renowned pediatric neurosurgeon
1967	Guest Visitor at the Medical College of Pennsylvania
1972	Visiting Professor at the University of Maine
1974	Guest Visitor at the University of Rochester
1975	Visiting Professor at the University of Colorado
1976	Guest Professor at Karolinska Hospital and Guest Professor at the University of Hanover while on Sabbatical Leave
1976	Guest Visitor at the University of Iowa
1976	Guest Visitor at the University of North Carolina
1977	Guest Visitor at the University of Nevada
1977	Guest Visitor at Loyola University
1977	Guest Lecturer at the University of Berlin
1978	Guest Visitor at the Virginia Mason Clinic
1981	Guest Lecturer at the University of Colorado
1975-1977	Editorial Board member of <u>Neurosurgery</u> , Williams & Wilkins Co., Baltimore, Maryland

1982	Examiner, American Board of Neurological Surgery
1986	Project Site Visiting Team NIH Advisory Committee
1986	Visited University of Wisconsin, Madison Wisconsin, April 28-30, 1986
1986	Examiner, American Board of Neurological Surgery
1991	Faculty, World Federation of Neurosurgical Societies International Training Course, Buenos Aires, Argentina
2001	Examiner, American Board of Neurological Surgery

### **Memberships and Offices in Professional Societies**

#### Society of University Neurosurgeons

President-1989

#### Congress of Neurological Surgeons

Vice President Membership Committee

Congress of Neurological Surgeons:

Membership Committee

Sergeant-at-Arms Chairman

#### American College of Surgeons

Committee on Trauma

Surgery Forum Moderator

Organizer and Moderator,

Cerebrovascular Disease Session

#### American Academy of Neurological Surgeons

Executive Committee

Society of Neurological Surgeons

Local Arrangements Chairman for 2000 Annual Meeting

#### Michigan Neurosurgical Association

Secretary-Treasurer

Rocky Mountain Neurosurgical Society

Program Chairman, 1989 and 1990

President-elect, 1998

Neurosurgical Forum

International Neurosurgical Forum

Association for Brain Tumor Research

Frederick A. Coller Surgical Society

American Heart Association:

Cerebrovascular Disease Section

Society of Neuroscience

Colorado Neurosurgical Society

Western Neurosurgical Society

American Medical Association

International Society of Cerebral Blood

Flow and Metabolism

**Committee and Administrative Activities**  
University of Michigan

1969-1981	Committee to Review Research Involving Human Subjects
1969-1975	Neural and Behavioral Science Committee, Neurosurgical Representative
1970-1981	Disaster Committee
1972-1981	Tissue Committee
1972-1981	Surgery Advisory Committee, Mott Children's Hospital
1973-1981	Cerebral Death Determination Committee
1973-1981	Neurology and Neurosurgery Planning and Policy Committee
1973-1975	Department of Physical Medicine, Review and Search Committee
1974-1981	Medical Student Counselor
1976-1981	Faculty Representative, Alpha Omega Alpha
1977-1978	Chairman, Department of Ophthalmology Review and Search Committee
1978-1981	Medical Care Quality Assessment Committee
1978-1981	Treasurer, Neurosurgery Medical Service Plan
1979-1980	Chairman, Physician's Assistant Assessment Subcommittee
1979-1981	Cancer Work Group
1977-1981	Ambulatory Care Committee
1979-1980	Review Committee of the Office of Chief of Clinical Affairs
1980-1981	Interdisciplinary Biochemical Research Team

1979-1981	Acting Head, Section of Neurosurgery
<u>University of Colorado</u>	
1981 to 1984	Surgery Cost Center Committee
1981 to 1983	Faculty Promotions Committee
1981 to Present	University Hospital Medical Board
1982 to present	Operating Room Committee
1982 to 1983	Faculty Representative, A.O.A.
1984 to 1985	President, University Physicians, Inc.
1982 to 1984	Department of Pathology Search Committee
1983-1985	Chairman, Department of Physical Medicine and Rehabilitation Search Committee
1981 to 2001	Head, Division of Neurosurgery
1983-1984	Dean, School of Medicine, Search Committee
1983 to present	Head Protection Laboratory Committee
1982 to present	University Hospital Nominating Committee

**Journal Articles, Book Chapters, and Significant Published Abstracts**  
**in Chronological Order**

- 1 Kindt GW: The pattern of location of cerebral metastatic tumors. *J Neurosurg* 22: 54-57, 1964
- 2 Kindt GW, Youmans JR: Regional hypothermia produced by cooling the blood within the intact artery. *Surg Forum* 17: 406-407, 1966
- 3 Kindt GW, Albrand OW, Youmans JR: Influence of a compromised arterial system on the autoregulation of cerebral blood flow during hypotension and hypertension. *Circulation* 34: 144, 1966 (abstract)
- 4 Kindt, GW, Youmans JR, Albrand OW: Factors influencing autoregulation of cerebral blood flow during hypotension and hypertension. *J Neurosurg* 26:299-305, 1967
- 5 Kindt GW, Youmans JR, Yamada S: Cryosurgery for abnormal movement disorders. *JSC Med Assn* 63: 175-179. 1967
- 6 Yamada S, Kindt GW, Youmans JR: Traumatic occlusion of the carotid artery. *J Trauma* 7: 332-342, 1967
- 7 Kindt GW, Youmans JR: An experimental study of untreated massive intracerebral hematoma. *Surg Forum* 18: 433-434, 1967
- 8 Youmans JR, Kindt GW, Mitchell OC: Extended studies of direction of flow and pressure in the internal carotid artery following common carotid artery ligation. *J Neurosurg* 27: 250-254, 1967
- 9 Youmans JR, Kindt GW: The significance of closed head injuries. *Med Trial Tech Quar* 14: 9-15, 1967
- 10 Youmans JR, Kindt GW: The effect of collateral artery impairment on blood flow through a constricted carotid artery. *Circulation* 36: 276, 1967 (abstract)
- 11 Albrand OW, Kindt GW, Youmans JR: Diencephalic syndrome. *JSC Med Assn* 64: 309-312, 1968
- 12 Youmans JR, Kindt GW: The influence of multiple vessel impairment on carotid blood flow in the monkey. *J Neurosurg* 29: 135-138, 1968
- 13 Youmans JR, Kindt GW: Efficacy of carbon dioxide in the treatment of cerebral ischemia. *Surg Forum* 19: 425-426, 1968
- 14 Travis RL, Mitchell OC, Youmans JR, Kindt GW: Intracranial surgery in hemophilia: Use of a potent antihemophilic factor concentrate. *Amer Surgeon* 34: 592-604, 1968
- 15 Kindt GW, Youmans Jr: Experimental studies of the effect of carbon dioxide on cerebral blood flow during carotid insufficiency. *Scand J Lab Clinic Invest (Suppl 102)*: 16H-13F, 1968
- 16 Kindt GW, Youmans JR: Feasibility of trans-arterial cooling of blood. *J Cryosurg* 1: 284-287, 1968
- 17 Kindt GW, Youmans JR: Effect of the length of atheromatous plaque on blood flow in an artery. *Circulation Suppl VI* 37-38: 114, 1968.

- 18 Kindt GW, Youmans JR: The effect of stricture length on critical arterial stenosis. *Surg Gyn Obst* 128: 729-734, 1969
- 19 Kindt GW: An arterial clamp for more gradual blood flow reduction. *J Neurosurg* 33: 508-510, 1969
- 20 Kindt GW, Youmans JR: The site of action of carbon dioxide on cerebral circulation. *Surg Forum* 70: 419-421, 1969
- 21 Kindt GW, Youmans JR, Conway LW: The use of ultrasound to determine cerebral arterial reserve. *J Neurosurg* 31: 544-549, 1969
- 22 Ducker TB, Kindt GW: The vasomotor control of spinal cord circulation. *VA Clinical Spinal Cord Injury Conference* 18: 69-70, 1969
- 23 Kindt GW, Ducker TB: The use of arterial reserve as a method of determining large artery disease. *Current Topics of Surgical Research* 2: 505-511, 1970
- 24 Kindt GW, Ducker TB: Prevention of ischemic brain damage during carotid endarterectomy in patients with severe vascular disease. *Circ Suppl III* 42:94, 1970
- 25 Kindt GW, Ducker TB, Huddleston J: Regulation of spinal cord blood flow. In Russell RWR (ed): *Brain and Blood Flow*. London, Pitman Medical and Scientific Publishing Co., Ltd., 1971, pp 401-405
- 26 Ducker TB, Kindt GW: The effect of trauma on vasomotor control of spinal cord blood flow. *Current Topics in Surgical Research* 3: 163-171, 1971.
- 27 Kindt GW, Gabrielsen TO: Angiographic demonstration of brain injury without significant hematoma. *J Neurosurg* 35: 296-302, 1971
- 28 Kindt GW, Autoregulation of spinal cord blood flow. *Panminerva Medica* 13: 159, 1971.
- 29 Gosch HH, Kindt GW: Head injuries - Some current concepts in management. *Univ Mich Med Cen J* 37:74-79, 1971
- 30 Kindt GW, Hudson JS, Gosch HH, Gabrielsen TO: Relief of arterial spasm associated with cerebral aneurysm. *Panminerva Medica* 13: 191, 1971
- 31 Gosch GG, McGauley J, Kindt GW: Arterial pCO<sub>2</sub> reduction for the treatment of acute increased intracranial pressure. *Surg Forum* 22: 427-428, 1971
- 32 Kindt GW, Schneider RC, Robinson J: A method of comparing the impact absorption characteristics of football helmets. *Med Science in Sports* 3: pp 203-209, 1971
- 33 Ducker TB, Kindt GW, Kempe LG: Acute spinal cord pathology: Experimental studies in graded trauma. *J Neurosurg* 35: 700-708, 1971
- 34 Kindt GW, Hudson JS, Gosch HH, Gabrielsen TO: Relief of arterial spasm associated with cerebral aneurysms. *Europ Neurol* 18: 38-42, 1971
- 35 Kindt GW: Autoregulation of spinal cord blood flow. *Europ Neurol* 6: 19-23, 1972
- 36 Gosch HH, Kindt GW: Subdural monitoring of acute increased intracranial pressure. *Surg Forum* 23: 405-406, 1972
- 37 Mehlic TF, Kindt GW: Hydrocephalus and mental acuity. *Mich Med* 71: 937-940, 1972

- 38 Kindt GW, Gosch HH: Cerebral pyogenic abscess, *Surgical Clinics of North America* 52: 1439-1445, 1972
- 39 Kindt GW, Gosch HH: Arterial pCO<sub>2</sub> effect at various levels of intracranial pressure. In Brock M, Dietz H (eds): *Intracranial Pressure*. Berlin/Heidelberg/New York, Springer-Verlag, 1972, pp 210-213
- 40 Kindt GW, Youmans JR: Trauma to carotid arteries. In Youmans JR (ed): *Neurological Surgery*. Philadelphia, W.B. Saunders Co., 1973, pp 978-980
- 41 Kindt GW, Miller CA, McGillicuddy JE: Origin of the Cushing response. *Surg Forum* 24: 431-433, 1973
- 42 Kindt GW, Schneider RC: Comparison of absorption characteristics of football helmets. In Schneider RC (ed): *Head and Neck Injuries in Football*. Williams and Wilkins, 1973, pp 228-240
- 43 Howe JR, Kindt GW: Cerebral protection during carotid endarterectomy. *Stroke* 5: 340-343, 1974
- 44 Miller CA, Kindt GW: Brain abscesses. *Hospital Medicine* 10: 26-32, 1974
- 45 Russo RH, Crosby EC, Kindt GW: The bobble-head syndrome: An experimental study of its anatomic basis. *Surg Forum* 25: 466-468, 1974
- 46 Russo RH, Kindt GW: A neuroanatomic basis for the bobble-head doll syndrome. *J. Neurosurg* 41:720-724, 1974
- 47 Rasis JE, Kindt GW, Miller CA, McGillicuddy JE: Correlation of ICP with CSF lactate and lactate/pyruvate ratios in hydrocephalus. In Lundberg N, Ponten U, Brock M (eds): *Intracranial Pressure II*. Berlin/Heidelberg/New York, Springer-Verlag, 1975, pp 195-198
- 48 Kindt GW, Waldman J, Kohl S, Baublis J, Tucker RP: Intracranial pressure in Reye's syndrome. *JAMA* 231: 822-825, 1975
- 49 McGillicuddy JE, Kindt GW, Miller CA, Rasis JE: The interrelations between increased ICP, cerebral ischemia, cerebral hypoxia and cerebral hypercarbia on the Cushing response. In Lundberg N, Ponten U, Brock M (eds): *Intracranial Pressure II*. Berlin/Heidelberg/New York, Springer-Verlag, 1975 pp303-307
- 50 Kindt GW: Simplification of intracranial pressure monitoring. In Lundberg N, Ponten U, Brock M (eds): *Intracranial Pressure II*. Berlin/Heidelberg/New York, Springer-Verlag, 1975, pp 381-382
- 51 Giannotta SL, Kindt GW, Haar FL: Topical lidocaine in the treatment of cerebral vasospasm. *Surg Neurol* 4: 13-16, 1975
- 52 Rasis JE, Kindt GW, McGillicuddy JE: Effects of elevated cerebral venous pressure on cerebral blood flow and intracranial pressure. In Harper AM, Jennett WB, Miller JD, Rowan JO (eds): *Blood Flow and Metabolism in the Brain*. Edinburgh/London/New York, Churchill Livingstone, 1975, pp 6.17-7.18

- 53 McGillicuddy JE, Kindt GW, Rasis JE: The effect of temperature on cerebrovascular resistance and cerebral metabolism in the primate. In Harper AM, Jennett WB, Miller JD, Rowan JO (eds): *Blood Flow and Metabolism in the Brain*. Edinburgh/London/New York, Churchill Livingstone, 1975, pp 11.36-11.37.
- 54 Wolter JR, Kindt GW: Concomitant exotropia following Reye's Syndrome. *J Ped Opthal* 12: 162-164, 1975.
- 55 Tucker RP, Kindt GW, Waldman J, Kohl C, Baublis J: The EEG during monitoring and control of intracranial pressure in Reye's Syndrome. *EEG Clin Neurophysiol* 38: 552, 1975
- 56 Rasis JE, Kindt GW, Miller CA, McGillicuddy JE: Lactate and lactate/pyruvate ratios in hydrocephalus. *J Neurosurg* 44: 337-341, 1976
- 57 Scott BB, Quisling RG, Miller CA, Kindt GW: Acute spontaneous cervical epidural hematoma. *JAMA* 235: 512-516, 1976
- 58 Chandler WF, Kindt GW: Monitoring and control of intracranial pressure in non-traumatic encephalopathies. *Surg Neurol* 5: 311-314, 1976
- 59 Gill G, Rice D, Ritter F, Kindt GW, Russo H: Intracranial nasopharyngeal angiofibroma. *Arch Otolaryngol* 102: 371-373, 1976
- 60 Altenau LL, Chandler WF, Kindt GW: Effect of elevated serum ammonia on intracranial pressure. *Surg Forum* 27: 490-491, 1976
- 61 Kindt GW, Gosch HH: Trauma to the central nervous system. In Frey C (ed): *Initial Management of the Trauma Patient*. Philadelphia, Lee and Feibiger, 1976, pp 241-254
- 62 Kindt GW, Chandler WF, Gosch HH: The importance of preventing increased intracranial pressure in patients with cerebral edema not related to trauma. In Beks J, Bosch D, Brock M (eds): *Intracranial Pressure III*. Berlin/Heidelberg/New York, Springer-Verlag, 1976, pp 331-335
- 63 Altenau LL, Kindt GW: Cerebral metabolism and blood flow. In Howe J (ed): *Patient Care in Neurological Surgery*. Boston, Little Brown, 1977 pp 3-17
- 64 Kindt GW, Brock M, Altenau LL, Poll W: Blood brain barrier and brain edema in ammonia intoxication. *Lancet* 1: 201, 1977
- 65 Altenau LL, Kindt GW: Cerebral vasomotor paralysis produced by ammonia intoxication. In Ingvar DH, Lassen NA (eds): *Cerebral Function, Metabolism and Circulation*. Copenhagen, Munksgaard, 1977, pp 346-347
- 66 Altenau LL, Kindt GW, McGauley JL: Comparison of glucose metabolism in normal brain and edematous brain surrounding an experimental brain neoplasm. In Ingvar DH, Lassen NA (eds): *Cerebral Function, Metabolism and Circulation*. Copenhagen, Munksgaard, 1977, pp 508-509
- 67 Kindt GW, Schneider RC: Computerized monitoring in a neurosurgical intensive care unit. *Neurosurg* 1: 68, 1977
- 68 Giannotta SL, McGillicuddy JE, Kindt GW: Diagnosis and treatment of postoperative cerebral vasospasm. *Surg Neurol* 8: 286-290, 1977

- 69 Kindt GW, Altenau LL: Primary dilatation of the cerebral resistance vessels as a cause of increased intracranial pressure. In Cervos-Navarro J, Betz E, Wullenweber R (eds): *Advances in Neurology*, Vol 20. New York, Raven Press, 1978
- 70 McGillicuddy JE, Kindt GW, Miller CA, Rasis JE: The relation of cerebral ischemia, hypoxia, and hypercarbia to the Cushing response. *J Neurosurg* 48:730-740, 1978
- 71 Giannotta SL, Hopkins J, Kindt GW: Computerized tomography in Reye's Syndrome: Evidence for pathologic cerebral vasodilatation. *Neurosurgery* 2: 201-204, 1978
- 72 Scott BB, McGillicuddy JE, Seeger JF, Kindt GW, Giannotta SL: Vascular dynamics of an experimental cerebral arteriovenous shunt in the primate. *Surg Neuro* 10: 34-38, 1978
- 73 Pritz MB, Giannotta SL, Kindt GW, McGillicuddy JE, Prager RL: Treatment of patients with neurologic deficits associated with cerebral vasospasm by intravascular volume expansion. *Neurosurgery* 3: 364-368, 1978
- 74 Giannotta SL, Kindt GW: Metastatic spinal cord tumors. *Clin Neurosurg* 25:495-503, 1978
- 75 Giannotta LS, Rasis JE, McGillicuddy JE, Kindt GW: The effect of temperature on the cerebrovascular resistance and cerebral metabolism in the primate. *J Surg Res* 25: 105-111, 1978
- 76 Rasis JE, Kindt GW, McGillicuddy JE, Giannotta SL; The effects of a primary elevation of cerebral venous pressure on cerebral hemodynamics and intracranial pressure in the monkey. *J Surg Res* 26: 101-107, 1979
- 77 Giannotta SL, Shogan SH, Kindt GW: Total morbidity and mortality rates of surgically treated intracranial aneurysms. *Neurosurgery* 4: 125-128, 1979
- 78 Engle WD, Baublis JV, Duff TE, Rosenberg NM, Tucker RP, Kindt GW, Kelsch RC, Weeks R: Reye's Syndrome in Michigan. In Crocker JFS (ed): *Reye's Syndrome II*. New York, Grune and Stratton, 1979, pp 468-470
- 79 Kindt GW, McGillicuddy JE, Giannotta SL, Pritz MB: The reversal of neurologic deficit in patients with acute cerebral ischemia by profound increases in intravascular volume. In Gotoh F, Nagai H, Tazaki Y (eds): *Cerebral Blood Flow and Metabolism*. Copenhagen, Munksgaard, 1979, pp 468-470
- 80 Kindt GW, Hopkins J: Therapeutic approaches - nonoperative. Monitoring and controlling certain vital functions. In Odom G (ed): *Central Nervous System Trauma Research Status Report*. NINCDS, National Institutes of Health 1979, pp 178-185
- 81 Giannotta SL, McGillicuddy JE, Kindt GW: Gradual carotid artery occlusion in the treatment of inaccessible internal carotid artery aneurysms. *Neurosurgery* 5: 417-442, 1979
- 82 Hopkins J, Giannotta SL, Kindt GW: Pathologic vasodilatation as a cause of increased intracranial pressure in Reye's Syndrome. In Crocker JFS (ed): *Reye's Syndrome II*. New York, Grune and Stratton, 1979, pp 486 (abstract)
- 83 Kindt GW: Skull implantation materials. Chapter 18 in Feller I, Grabb W (eds): *Reconstruction and Rehabilitation of the Burned Patient*. Ann Arbor, Michigan, National Institute for Burn Medicine, 1980, pp 72-76

- 84 Kindt GW, Hopkins J: Selection of patients for intracranial pressure monitoring and control. In Shulman K, Marmarion A, Miller JD, Becker DP, Hochwald GM, Brock M (eds): Intracranial Pressure IV. Berlin/Heidelberg/New York, Springer-Verlag, 1980, pp 588-591
- 85 Giannotta SL, Dicks RG, Kindt GW: Carotid endarterectomy - technical improvements. *Neurosurgery* 7: 309-312, 1980
- 86 Kindt GW: Management of patients with increased intracranial pressure. *Univ Mich Med Center J* 46: 12-14, 1980
- 87 Kindt GW, McGillicuddy JE, Pritz M, Giannotta SL: Hypertension and hypervolemia as therapy for patients with vasospasm. Chapter in Wilkins R (ed): *Cerebral Arterial Spasm*. Baltimore, Williams and Wilkins, 1980, pp 659-665
- 88 McGillicuddy JE, Kindt GW, Keller T: Effect of intravascular volume expansion on blood flow in ischemic brain - a clinical and laboratory study. Chapter in Cervos-Navarro J, Fritschka E (eds); *Cerebral Microcirculation and Metabolism*. New York, Raven Press, 1981, pp 415-419
- 89 Pritz MB, Kindt GW: Transient neurologic deficits associated with congestive heart failure and hypovolemia. *Surg Neuro* 15: 467-470, 1981
- 90 Greenberg HS, Ensminger WD, Seeger JF, Kindt GW, Chandler WF, Doan K, Dakhil SR: Intra-arterial BCNU chemotherapy for the treatment of malignant gliomas of the central nervous system. *Cancer Treatment Reports* 65: 803-810, 1981
- 91 Phillips TW, Kindt GW: Syringoperitoneal shunt for syringomyelia: A Preliminary Report. *Surg Neurol* 16: 462-466, 1981
- 92 Greenberg HS, Seeger JF, Ensminger WE, Kindt GW: Ocular toxicity associated with BCNU in the treatment of malignant brain tumors. *Ann Neurol* 10: 99, 1981
- 93 Dempsey RJ, Kindt GW: Pathologic cerebral vasodilatation and increased intracranial pressure in experimental hepatic encephalopathy. *Surg Forum* 32:477-479, 1981
- 94 Pritz MB, Chandler WF, Kindt GW: Vertebral artery disease: Radiologic evaluation, medical management, and microsurgical treatment. *J Neurosurg* 9:524-530, 1981
- 95 Dakhil S, Ensminger W, Kindt GW, Neiderhuber J, Chandler W, Greenberg H, Wheeler R: Implanted system for intraventricular drug infusion in central nervous system tumors. *Cancer Treatment Reports* 5: 401-411, 1981
- 96 Hopkins J, Kahn EA, Kindt GW: Metastatic tumors of the brain. Chapter in Schneider R, Kahn E, Crosby E, Taran J (eds): *Correlative Neurosurgery*. Springfield, Thomas, 1982, pp 386-390
- 97 Kindt GW, Farhat SM: Extracranial vascular lesions with neurological implications. Chapter in Schneider R, Kahn E, Crosby E, Taren J (eds): *Correlative Neurosurgery*. Springfield, Thomas, 1982, pp 1482-1498
- 98 Kindt GW, Kahn EA: Expanding lesions of the brain and increased intracranial pressure. Chapter in Schneider R, Kahn E, Crosby E, Taren J (eds): *Correlative Neurosurgery*. Springfield, Thomas, 1982, pp 3-21

- 99 Dempsey RJ, Kindt GW: Experimental acute hepatic encephalopathy: The relationship for a pathologic state of cerebral vasodilatation to the increased intracranial pressure of acute hepatic encephalopathy. *Neurosurgery* 10: 737-741, 1982
- 100 Pritz MB, Kindt GW: Perioperative management of high risk patients with cardiopulmonary disease undergoing carotid endarterectomy or extracranial intracranial bypass. *Neurosurgery* 10: 422-427, 1982
- 101 Phillips TW, Chandler WF, Kindt GW, Ensminger WD, Greenberg HS, Seeger JF, Doan K, Gyves J: A new implantable continuous and bolus intracarotid drug delivery system for the treatment of malignant gliomas. *Neurosurgery* 11: 213-218, 1982
- 102 Dempsey R, Hopkins J, Bittman E, Kindt GW: Total pinealectomy by an occipital parasagittal approach in sheep. *Surg Neurol* 18: 377-380, 1982
- 103 Bucko CD, Kindt GW: Scalp injuries. In McLauren (ed): *Pediatric Neurosurgery*. New York, Grune and
- 104 Keller TS, McGillicuddy JE, LaBond VA, Kindt GW: Volume expansion in focal cerebral ischemia: The effect of cardiac output on local cerebral blood flow. *Clin Neurosurg* 29: 40-50, 1982
- 105 Dempsey RJ, Kindt GW: Experimental augmentation of cerebral blood flow by mannitol in epidural intracranial masses. *J Trauma* 22: 449-454, 1982
- 106 Bogdasarian RS, Kwyer TA, Dauser RC, Chandler WR, Kindt GW: Internal carotid artery blowout as a complication of sphenoid sinus and skull base surgery. *Otolaryngol Head Neck Surg* 91: 308-312, 1983
- 107 Geier JM, Smith H, Braun T, Gross C, Kindt GW, Glode M: Extracerebral toxicity of continuous intracarotid FUDR via implanted Infusaid pump in brain tumor patients. *Surg Forum* 34: 530-532, 1983
- 108 Smith H, Geier JM, Stears J, Kindt G, Glode LM: Intracarotid BCNU in the treatment of malignant brain tumors: A Phase I trial: *Clin Res* 31: 1-3, 1983
- 109 Keller T, Kindt GW: Central nervous system intensive care. In Bartlett R, Whitehouse W, Turcotte J (eds): *Life Support Systems in Intensive Care*. Chicago, Yearbook, 1984, pp 487-552
- 110 Nagata K, Geier JM, Gross CE, Braun T, Kindt GW: The use of topographic electroencephalography to monitor the progression of patients with malignant brain tumors. *Surg Forum* 35: 484-486, 1984
- 111 Shogan SH, Kindt GW: Injuries to the head and spinal cord. Chapter 8 in Zuidema GD, Rutherford RB, and Ballenger WF (eds): *The Management of Trauma*. Philadelphia, Saunders, 1985, pp 207-242
- 112 Gross CE, Nagata K, Keller TS, Kindt GW: Computerized mapping of the EEG in cerebral ischemia. In Spetzler RF, Carter LP, Selman WR, and Martin NA (eds): *Cerebral Revascularization for Stroke*. New York, Thieme-Stratton Inc., 1985, pp 166-172

- 113 Tranmer BI, Kindt GW: High altitude - an unusual cause of neurological deterioration in a patient with arteriovenous malformation. *Neurosurg* 17:320-323, 1985
- 114 Nagata K, Gross CE, Kindt GW, and Geier JM: Topographic encephalographic study in patients with malignant brain tumors using power ratio index (PRI) mapping. *Neurosurg* 17: pp 613-619, 1985
- 115 Tranmer BI, Gross CE, Kindt GW, Adey GR: The effect of pulsatile versus non-pulsatile blood flow in the treatment of ischemic stroke. *Surg Forum* 36: pp 483-485, 1985
- 116 Keller TS, McGillicuddy JE, LaBond VA, Kindt GW: Modification of focal cerebral ischemia by cardiac output augmentation. *J Surg Res* 39: 420-432, 1985
- 117 Tranmer BI, Geier JM, Gross CE, Kindt GW, Adey GR: Cerebral angiography: Effect on cerebral blood flow and computerized mapping of EEG. *Cerebral Blood Flow and Metabolism*. In Seisjo BK, Ingvar DH (eds) Raven Press, New York, 1985, pp 5443-5444
- 118 Tranmer BI, Keller TS, Gross CE, Kindt GW: Acute middle cerebral artery occlusion - experience with volume expansion therapy. *Neurosurgery*, 18:397-401, 1986
- 119 Mughal TI, Glode ML, Braun TJ, Klingensmith W., Geier JM, Kindt GW: Phase I clinical trial of intracarotid BCNU and FUdR in malignant astrocytomas. *JNeuro-Onco* 3: 291-296, 1986
- 120 Tranmer BI, Gross CE, Kindt GW, Adey GR: Pulsatile flow vs. non-pulsatile blood flow in treatment of acute cerebral ischemia. *Neurosurgery* 19: 724-731, 1986
- 121 Lillehei KO, Tranmer BI, Kindt GW: The Role of Colloid Volume Expansion in the Treatment of Cold Induced Vasogenic Cerebral Edema. *Surg Forum* 37: 517-519, 1986
- 122 Tranmer BJ, Kindt GW, Gross CE: Pulsatile vs.: Non Pulsatile Blood flow during acute cerebral ischemia. Chapter in Cervos-Navarro (ed): *Stroke and Microcirculation*. New York Raven Press, 1986 pp 57-61
- 123 Tranmer BI, Keller TS, Nagata K, Kindt GW, Adey GR: Blood volume expansion with hetastarch in acute ischemic stroke: the results of local cerebral blood flow/computer mapped EEG. *Neurological Research* 8:177-1988
- 124 Tranmer BI, Kindt GW: TIA'S: Guidelines for Assessment. *Bulletin of the American College of Emergency Physicians*. Vol 3:20 1988
- 125 Ebeling JD, Tranmer BI, Davis KA, Kindt GW, DeMasters BK: Thrombosed arteriovenous malformations: A type of occult vascular malformation. *Neurosurg* 23:605-610, 1988
- 126 Tranmer BI, Iacobacci RJ, Kindt GW: Effects of Crystalloid and colloid infusions on intracranial pressure and computerized electroencephalographic data in dogs with vasogenic brain edema. *Neurosurg* 25: 173-180, 1989
- 127 Tranmer BI, Kindt GW, Gross CE: Medical management of Acute cerebral ischemia. Chapter 48 in Youmons JR (ed): *Neurological Surgery*. Philadelphia. W.B. Saunders CO. 1989, pp 1516-1533
- 128 Terada LS, Willingham IR, Rosandich ME, Leff JA, Kindt GW, Repine JE: Generation of Superoxide Anion by Brain Endothelial Cell Xanthine Oxidase. *J. Cell Phys* 148: 191-196 1991

- 129 Tranmer BI, Keller TS, Kindt GW, Ardor D: Loss of Cerebral Regulation during Cardiac Output Variations in Focal Cerebral Ischemia. *J Neurosurg* 77:253-259, 1992
- 130 Duke BJ, Kindt GW, Breeze RE: Outcome after urgent surgery for grade IV subarachnoid hemorrhage. *Surg Neurol* 1998;50:160-73
- 131 Duke BJ, Breeze RE, Robenstein D, Tranmer B, Kindt GW: Induced hypervolemia dn inotropic support for acute cerebral arterial insufficiency: An underused therapy. *Surg Neurol* 1998;49:51-7
  
- 132 Duke BJ, Kindt GW, Breeze RE: Pineal region choroid plexus papilloma treated with stereotactic radiosurgery: A case study. *Computer Aided Surgery* 1997;2:135-38.
- 133 Wang MC, Rubenstein D, Kindt GW and Breeze RE: Prevalance of intracranial aneurysms in first degree relatives of patients with aneurysms. *Neurosurg Focus* 13(3);1-4,2002.
- 134 Sarin H, Kindt GW, and Tanabe J: Familial Ossification of the posterior longitudinal ligament (OPLL) in the thoracic spine: case report. *Surg Neurol*, 58(6):403-5; discussion 405; 2002.

## Movies

1. **"Relief of Arterial Spasm Associated with Cerebral Aneurysm"**, with Hudson JS and Gosch HH  
Shown at: a) Neurosurgical Travel Club, Ann Arbor, Michigan,  
September 21, 1971  
b) Congress of Neurological Surgeons,  
Miami-Nassau, October, 1971
2. **"Reduction of Segmental Cerebral Arterial Spasm - A Laboratory Study"**  
Shown at: a) International Symposium on Cerebral Blood Flow,  
Rome, Italy, November, 1971
3. **"Surgery for Vascular Lesions"**, with Gosch HH and Disbro J  
Shown at: a) Society of University Neurosurgeons,  
Vancouver, BC, May, 1972  
b) Michigan Neurological Association, Ann  
Arbor, Michigan, May, 1972  
c) Shown to medical students annually

## Displays

1. **"Simplification of Intracranial Pressure Monitoring"**  
Shown at: a) Second International Intracranial Pressure Symposium, Lund, Sweden, June 16-19, 1974
2. **"Head and Neck Injuries in Football"** with Gooding E, Schneider RC and Rasis JE  
Shown at: a) American Association of Neurological Surgeons  
Meeting, Miami, Florida, April 6-10, 1975  
b) American College of Surgeons Meeting,  
San Francisco, California, October 13-17, 1975
3. **"The Use of Videocassette Self-Instruction in Neurosurgical Education"** with Taren JA, Crosby EC,  
Schneider RC, and McGillicuddy JE  
Shown at: a) American Association of Neurological Surgeons  
Meeting, Miami, Florida, April 6-10, 1975
4. **"Cerebral Vasomotor Paralysis Produced by Ammonia Intoxication"** with Altenau L  
Shown at: a) Eighth Cerebral Blood Flow Symposium,  
Copenhagen, Denmark, June 27, 1977
5. **"Comparison of Glucose Metabolism in Normal Brain and Edematous Brain Surrounding an  
Experimental Brain Neoplasm"** with Altenau LL and McGauley JL

- Shown at: a) Eighth Cerebral Blood Flow Symposium,  
Copenhagen, Denmark, June 30, 1977
6. **"The Effect of Temperature on Cerebral Metabolism and Cerebrovascular Resistance"**  
with Giannotta SL and McGillicuddy JE  
Shown at: a) Michigan Heart Association Meeting,  
Royal Oak, Michigan, September 17, 1977
  7. **"The Reversal of Neurologic Deficit in Patients with Acute Cerebral Ischemia by Increases in Intravascular Volume"** with McGillicuddy JE, Giannotta SL, and Pritz MB  
Shown at: a) Ninth International Symposium on Cerebral Blood Flow  
and Metabolism, Tokyo, Japan, May 31, 1979
  8. **"Selection of Patients for Intracranial Pressure Monitoring and Control"** with Hopkins J  
Shown at: a) Fourth International Symposium on Intracranial  
Pressure, Williamsburg, Virginia, June 13, 1979
  9. **"The Effect of Intravascular Volume Expansion on Acute Stroke Symptoms"** with McGillicuddy JE and Pritz MB  
Shown at: a) The American Association of Neurological Surgeons  
Meeting, New York, New York, 1980
  10. **"Intra-arterial Chemotherapy for Malignant Brain Tumors"** with Coon JV and Chandler WF  
Shown at: a) The American Association of Neurological Surgeons  
Meeting, Boston, Massachusetts, April 6, 1981
  11. **"Head Protection Research Laboratory"** with Gooding E  
Shown at: a) Michigan Technology Fair  
Ann Arbor, Michigan, April 11-12, 1981
  12. **"Treatment of Glioblastoma with Intracarotid Infusions of B.C.N.U."** with Geier JM, Smith H, Glode, M  
Shown at: a) American Association of Neurological Surgeons  
Meeting, San Francisco, California, 1984
  13. **"Phase I Clinical Trial of B.C.N.U. and F.U.D.R. in Malignant Astrocytomas"** with Meighal TI, Glode M, Smith H, Geier JM, Braun T, Klingensmith W  
Shown at: a) American Association of Cancer Research Meeting  
Toronto, Canada, May, 1984

**Slide-Tape Educational Materials for Audio-Visual**

1. **"Surgery for Intracranial Aneurysms and Arteriovenous Anomalies"** Gosch HH and Kindt GW

2. **"Extracranial Vascular Disease and the Stroke-Prone Patient"** Altenau LL and Kindt GW

**Papers Presented at Regional, National, or International Meetings**

1. Society of Neurological Surgeons, Detroit, Michigan, April 17, 1963  
**"The Pattern of Location of Cerebral Metastatic Tumors"**
2. Southern Neurosurgical Society, Charleston, South Carolina, April, 1966  
**"Factors Influencing Autoregulation of Cerebral Blood Flow"**
3. American College of Surgeons, San Francisco, California, October, 1966  
**"Regional Hypothermia Produced by Cooling the Blood within the Intact Artery"**
4. American Heart Association, New York, New York, October, 1966  
**"Influence of a Compromised Arterial System on the Autoregulation of Cerebral Blood Flow during Hypotension and Hypertension"**
5. American Association of Neurological Surgeons, San Francisco, California, April, 1967  
**"Influence of Multiple Vessel Impairment on Carotid Blood Flow"**
6. American Heart Association, San Francisco, California, October, 1967  
**"Effect of Collateral Artery Impairment on Blood Flow through a Constricted Artery"**
7. American College of Surgeons, Chicago, Illinois, October, 1967  
**"An Experimental Study of Untreated Massive Intracerebral Hematoma"**
8. International Symposium on CBF and CSF, Lund, Sweden and Copenhagen, Denmark, May, 1968  
**"Experimental Studies of the Effect of CO on Cerebral Blood Flow during Carotid Insufficiency"**
9. American Heart Association, Bal Harbour, Florida, October, 1968  
**"Effect of the Length of an Atheromatous Plaque on Blood Flow in an Artery"**
10. American Association of Neurological Surgeons, Cleveland, Ohio, April, 1969  
**"The Use of Ultrasound to Determine Cerebrovascular Reserve"**
11. American College of Surgeons, San Francisco, California, October, 1969

**"The Use of Arterial Reserve as a Method of Determining Large Artery Disease"**

12. Association for Academic Surgery, Boston, Massachusetts, March, 1970

**"The Use of Arterial Reserve as a Method of Determining Large Artery Disease"**

13. Neurosurgical Society of America, Ojai, California, March, 1970

**"Using Current Concepts of Cerebral Blood Flow and Metabolism to Obtain Better Results from Carotid Endarterectomy"**

14. International Cerebral Blood Flow Symposium, London, England, October, 1970  
**"Regulation of Spinal Cord Blood Flow"**
15. American Heart Association, Atlantic City, New Jersey, November, 1970  
**"Prevention of Ischemic Brain Damage During Carotid Endarterectomy in Patients with Severe Vascular Disease"**
16. American Society for Testing and Materials, Fort Lauderdale, Florida, January, 1971  
**"Protection Against Spinal Cord Injury"**
17. Neurosurgical Travel Club, Ann Arbor, Michigan, September 1971  
**"Periarterial Irrigation of Lidocaine to Relieve Cerebral Vasospasm"**
18. Congress of Neurological Surgeons, Miami-Nassau, October, 1971  
**"Reduction of Segmental Cerebral Vasospasm, a Laboratory and Clinical Study"**
19. International Symposium on Cerebral Blood Flow Regulation, Rome, Italy, November, 1971  
**"Autoregulation of Spinal Cord Blood Flow"**
20. International Symposium on Cerebral Blood Flow Regulation, Rome, Italy, November, 1971  
**"Relief of Arterial Spasm Associated with Cerebral Aneurysm"**
21. Society of University Neurosurgeons, Vancouver, British Columbia, Canada, May 4, 1972  
**"Dealing with Spasm During Aneurysm Surgery"**
22. Detroit Neurological Club, Ann Arbor, Michigan, May 17, 1972  
**"Using Current Concepts of Cerebral Blood Flow and Metabolism to Advantage During Cerebral Ischemia"**
23. Michigan Committee on Trauma of the American College of Surgeons, Gaylord, Michigan, June 2, 1972  
**"The Management of Head Injury"**
24. Michigan Committee on Trauma of the American College of Surgeons, Gaylord, Michigan, June 3, 1972  
**"Anoxic Brain Damage"**
25. First International Symposium on Intracranial Pressure, Medizinische Hochschule Hanover, Hanover, West Germany, July 28, 1972  
**"Arterial pCO<sub>2</sub> Effect at Various Levels of Intracranial Pressure"**

26. University of Mainz, West Germany, July 31, 1972, Guest of Dr. Kurt Schurmann, Chief of Neurosurgery, Mainz University  
**"Use of Hyperventilation on Patients with Brain Injuries"**
27. Frederick A. Collier Surgical Society, Tahoe, Nevada, September 28, 1972  
**"Cerebral Protection During Acute Arterial Insufficiency"**
28. American College of Surgeons, San Francisco, California, October 3, 1972  
**"Subdural Monitoring of Acute Increased Intracranial Pressure"**
29. Postgraduate Medicine Course on Surgical Infections, Ann Arbor, Michigan, October 27-28, 1972  
**"Intracranial Abscesses"**
30. Society of University Neurosurgeons, Atlanta, Georgia, May 3, 1973  
**"A Sixteen Year Shunting Experience"**
31. E. A. Kahn Neurosurgical Meeting, Ann Arbor, Michigan, September 22, 1973  
**"Development of Head Protection"**
32. Congress of Neurological Surgeons, Honolulu, Hawaii, September 30-October 6, 1973  
 Committee Chairman and Session Moderator:  
**"Medical Management of Intracranial Aneurysms"**
33. American College of Surgeons, Chicago, Illinois, October 18, 1973  
**"Origin of the Cushing Response"**
34. American Academy of Orthopedic Surgeons, Buena Vista, Florida, April 4, 1974  
**"Measurement of Head Trauma"**
35. Society of University Neurosurgeons, San Antonio, Texas, May 3, 1974  
**"Importance of Monitoring Intracranial Pressure in Reye's Syndrome"**
36. Second International Symposium on Intracranial Pressure, Lund, Sweden, June 17, 1974  
**"Correlation of ICP with CSF Lactate and Lactate/Pyruvate Ratios in Hydrocephalus"**
37. Second International Symposium on Intracranial Pressure, Lund, Sweden, June 18, 1974  
**"The Interrelations Between Increased ICP, Cerebral Ischemia, Cerebral Hypoxia, and Cerebral Hypercarbia on the Cushing Response"**
38. Second International Symposium on Intracranial Pressure, Lund, Sweden, June 19, 1974  
**"Simplification of Intracranial Pressure Monitoring"**

39. American Academy of Pediatrics, Michigan Chapter, Ann Arbor, Michigan, March 6, 1975  
**"Diagnosis and Management of Increased Intracranial Pressure"**
40. Research Society of Neurological Surgeons, New Haven, Connecticut, May 1, 1975  
**"A Study of the Cushing Response"**
41. Society of University Neurosurgeons, Rochester, Minnesota, May 10, 1975  
**"The Neurosurgeon in Preventive Medicine with Reference to Head and Spinal Cord Injuries"**
42. University of Colorado, Denver, Colorado, May 22, 1975, Visiting Professor  
**"Factors Influencing Centrally Mediated Acute Hypertension"**
43. Congress of Neurological Surgeons, Atlanta, Georgia, October 22, 1975  
**"The Neurosurgeon In Research and Development of Head Protection"**
44. Emergency Medicine Course, American College of Emergency Medicine, Ann Arbor, Michigan, February 25, 1976  
**"Head Trauma and Neck and Spine Injuries"**
45. Third International Symposium on Intracranial Pressure, Groningen, The Netherlands, June 2, 1976  
**"Monitoring and Control of Intracranial Pressure in Non-Traumatic Etiology"**
46. Congress of Neurological Surgeons, New Orleans, Louisiana, October 26, 1976  
**"Management of Intracranial Hypertension of Non-Traumatic Etiology"**
47. Congress of Neurological Surgeons, New Orleans, Louisiana, October 27, 1976  
**"Intravenous Fluid Management for Head Injuries"**
48. American Academy of Neurological Surgeons, Charleston, South Carolina, November 11, 1976  
**"Computerized Monitoring in A Neurosurgical Intensive Care Unit"**
49. Michigan Academy of Family Physicians, Ann Arbor, Michigan, January 28 & April 22, 1977  
**"Management of Head Injuries"**
50. American Association of Neurological Surgeons Meeting, Toronto, Ontario, Canada, April 18, 1977  
**"Monitoring of Intracranial Pressure in Cases of Encephalopathy"**
51. Society of University Neurosurgeons Meeting, Cincinnati, Ohio, May 5, 1977  
**"Primary Vasodilatation as the Cause of Increased Intracranial Pressure"**

52. National Football League Physician's Society Meeting, Regency Hyatt, Dearborn, Michigan, June 12, 1977  
**"Research in Head Protection"**
53. Symposium on Athletic Injuries, University of Nevada, Reno, Nevada, June 26-29, 1977,  
honored guest (2 lectures):
  - a) **"Head and Neck Injuries in Football: A Dynamic Analysis"**
  - b) **"Research in Head Protection"**
54. Symposium on Cerebrovascular Microcirculation, Freie University of Berlin, Germany, September 7-10,  
1977 (2 lectures):
  - a) **"Primary Dilatation of the Cerebral Resistance Vessels as a Cause of Increased Intracranial Pressure"**
  - b) Session Chairman: **"Spinal Cord Microcirculation"**,
55. Ninth Annual Edgar A. Kahn Neurosurgical Meeting, Ann Arbor, Michigan, September 16, 1977  
**"Primary Vasodilatation as a Cause of Increased intracranial Pressure"**
56. Congress of Neurological Surgeons, San Francisco, California, October 12, 1977  
**"Development of a Neurosurgical Intensive Care Unit"**
57. Congress of Neurological Surgeons, San Francisco, California, October 13, 1977  
**"Surgery of Spinal Metastatic Disease"**
58. Society of Neurosurgical Anesthesia, New Orleans, Louisiana, October 14, 1977  
**"Monitoring ICP in Non-Traumatic Encephalopathy"**
59. Michigan State Medical Society Annual Scientific Meeting, Dearborn, Michigan, November 9, 1977  
**"Para-Phenomena of Influenza"**
60. Michigan State Medical Society Annual Scientific Meeting, Dearborn, Michigan November 10, 1977  
**"Intracranial Pressure Monitoring"**
61. Conference on the Spins, University of Michigan, Ann Arbor, Michigan, March 30, 1978  
**"Spinal Cord Blood Loss"**
62. Academy of Surgery of Detroit, Ann Arbor, Michigan, April 5, 1978  
**"Acute Management of Brain Injury"**
63. Neurosurgical Forum, Galveston, Texas, April 22, 1978  
**"Experience with Brain Abscess"**

64. American Association of Neurological Surgeons, New Orleans, Louisiana, April 24, 1978  
**"Hypotensive Reversal of Protective Effect of Hypothermia in Cerebral Hypoxia"**
65. Workshop on Monitoring of Acutely Brain Injured Patients, Sponsored by N.I.N.D.S., Winston-Salem, North Carolina, June 5, 1978  
**"Autoregulation of Patient Functions in an I.C.U."**
66. Congress of Neurological Surgeons, Washington, D.C., September 28, 1978  
**"Organization of A Neurosurgical Intensive Care Unit"**
67. N.I.H. Conference on Reye's Syndrome, Ann Arbor, Michigan, November 1, 1978  
**"Importance of Controlling Intracranial Pressure"**
68. N.C.A.A. Committee Meeting on Hockey Injuries, Detroit, Michigan, March, 1979  
**"Methods of Testing Head Protection Devices"**
69. Fourth International Symposium on Intracranial Pressure, Williamsburg, Virginia, June 11, 1979  
**"Selection of Patients for Intracranial Pressure Monitoring"**
70. Michigan Association of Neurological Surgeons, Boyne Highlands, Michigan, June 17, 1979  
**"Indications for Intracranial Pressure Monitoring"**
71. Second International Workshop on Cerebral Vasospasm, Amsterdam, Netherlands, July 14, 1979  
**"Treatment of Patients with Vasospasm with Hypervolemia-Hypertension"**
72. Congress of Neurological Surgeons, Las Vegas, Nevada, October 10, 1979  
**"Prognostic Evaluation of Head Injuries"**
73. Congress of Neurosurgical Surgeons, Las Vegas, Nevada, October 10, 1979  
**Continuous Intraventricular Chemotherapy for Malignant Brain Tumors"**
74. Frederick A. Coller Surgical Society, Ann Arbor, Michigan, October 19, 1979  
**"The Treatment of Patients with Acute Stroke Syndrome by Profound**
75. National Reye's Syndrome Meeting, Lansing, Michigan, February 2, 1980  
**"The Involvement of Neurosurgery in the Therapy of Reye's Syndrome"**
76. American Association of Neurological Surgeons Meeting, New York, New York, April 24, 1980  
Invited Lecturer: **"Blood Gas Control in Neurosurgical Emergencies"**
77. Mid-Atlantic Neurosurgical Society Meeting, Philadelphia, Pennsylvania, May 2, 1980  
Invited lecturer: **"Timing of Aneurysm Surgery"**

78. Society of University Neurosurgeons, Gainesville, Florida, May 16, 1980  
**"Chemotherapy for Brain Tumors"**
79. National Bureau of Standards Colloquium, Washington, D.C., May 22, 1980  
**"More Realistic Standards for Head Protection Devices"**
80. Michigan Association of Neurological Surgeons Meeting, Harbor Springs, Michigan, June 22, 1980  
**"Intra-Arterial Chemotherapy for Brain Tumors"**
81. American College of Surgeons, Atlanta, Georgia, October 21, 1980. Organizer and moderator of panel:  
**"Carotid Artery Injuries"**
82. Michigan State Medical Society, Dearborn, Michigan, November 18, 1980  
**"Low Back Pain - Neurosurgical Aspects"**
83. American Association of Neurological Surgeons Meeting, Boston, Massachusetts, April 7, 1981  
**"Monitoring of Intracranial Pressure"**
84. University of Colorado, Denver, Colorado, March 9, 1981 Lecturer:  
**"Increased Intracranial Pressure in Reye's Syndrome"**
85. Colorado Neurosurgical Society Meeting, Denver Colorado , September 12, 1981  
**"Residency Training Programs in Neurosurgery"**
86. Colorado Society of Clinical Neurologists, Denver, Colorado, November 8, 1981  
**"Management of Acute Head Injuries"**
87. Glenwood Springs Medical Society, Glenwood Springs, Colorado, May 12, 1981  
**"Neurosurgical Trauma"**
88. Critical Care Update Seminar, Fort Collins, Colorado, September 8, 1982  
**"Management of Neurosurgical Trauma and Cerebrovascular Accidents"**
89. Western Neurological Society, Jackson Hole, Wyoming, September 13, 1982  
**"Intra-arterial Chemotherapy for Malignant Brain Tumors"**
90. Seminar on Totally Implantable Pumps, Homestead, Virginia, October 3, 1982  
**"Regional Chemotherapy for Malignant Brain Tumors"**

91. Seminar on the Aftermath of Head Trauma, Denver, Colorado, April 22, 1983  
**"Pathophysiology and Immediate Management of Head Injury"**
92. American Critical Care Seminar on Stroke, Chicago, Illinois, May 2, 1983  
**"History of Intravascular Volume Expansion of Ischemic Stroke Deficits"**
93. Educational Program at Northern Colorado Medical Center, Greeley, Colorado, May 6, 1983  
**"Intrathecal Morphine for Terminal Pain and Chemotherapy for Brain Tumors"**
94. American Assoc of Neurological Surgeons Meeting, Washington, D.C., April 28, 1983  
**"Medical Emergencies in Neurosurgery"**
95. Family Practice Review, Estes Park, Colorado, June 18, 1983  
**"Modern Therapy for Acute Cerebral Ischemia"**
96. Ninth Annual Primary Care Orthopedics, Aspen, Colorado, August 15, 1983  
**"Basic Facts of Radiculopathy, Anatomy, and Pathophysiology"**
97. Ninth Annual Primary Care Orthopedics, Aspen, Colorado, August 15, 1983  
**"Surgical Management of the Ruptured Disc"**
98. American Academy of Neurological Surgery, Pebble Beach, California, October 23-26, 1983  
**"Controlled Hypervolemia as Therapy for Acute Arterial Insufficiency"**
99. Congress of Neurological Surgeons Meeting, Chicago, Illinois, October 31, 1983  
**"Carotid Artery Surgery"**
100. American Cancer Society, Colorado Division, Vail CO, January 20, 1984  
**"Metastatic Brain Tumors"**
101. Hespan Stroke Study - American Heart Association Meeting, Tampa, Florida, February 16, 1984  
(with Ted Keller, M.D.)  
**"Colorado Experience with Hypervolemia for Stroke"**
102. American Association of Neurological Surgeons, San Francisco, California, April 10, 1984  
**"Aneurysmal Subarachnoid Hemorrhage"**
103. Society of University Neurosurgeons, Seattle, Washington, May 23, 1984  
**"Computerized EEG Monitoring of Patients with Acute Brain Ischemia"**
104. Tenth Annual Primary Care Orthopedics, Aspen, Colorado, August 13, 1984  
**"Management of the Acute Cervical Injury"**

105. Tenth Annual Primary Care Orthopedics, Aspen, Colorado, August 14, 1984  
**"Spinal Emergencies"**
106. American Association of Neurological Surgeons Meeting, Atlanta, Georgia, April 24, 1985  
**"Subarachnoid Hemorrhage: Natural History and Perioperative Care"**
107. Intermountain Medical Society, Breckenridge, Colorado, February 4, 1986  
**"Sports Related Head Injuries"**
108. American Association of Neurological Surgeons Meeting, Denver, Colorado, April 16, 1986  
**"Anterior Communicating Aneurysm".**
109. Twelfth Annual Primary Care Orthopedics, Aspen, Colorado, August 12, 1986.  
**"Sciatica".**
110. International Symposium on Brain Microcirculation, Berlin, West Germany, September 5, 1986  
**"Brain Ischemia".**
111. Congress of Neurological Surgeons Meeting, New Orleans, Louisiana, September 17, 1986  
**"Brain Protection in Athletes".**
112. Congress of Neurological Surgeons Meeting, New Orleans, Louisiana, September 18, 1986  
**"Management of Occlusive Cerebrovascular Disease".**
113. Conference on Helmets and Head Injuries in Sports. Las Vegas, Nevada, December 8, 1986.  
**"Development of the Pneumatic Helmet Liner".**
114. International Symposium on prevention of catastrophic sports and recreational injuries to the spine and head. Toronto, Ontario, January 7, 1987.  
**"Head Protection in Football".**
115. Head Trauma Meeting, St. Anthony Hospital, Denver, Colorado, February 13, 1987.  
**"Development of Head Protection Devices".**
116. American Association of Neurological Surgeons Meeting. Dallas, Texas, May 5, 1987.  
**"Brain Protection During Ischemia".**
117. Thirteenth Annual Primary Care Orthopedics, Aspen, CO August 10, 1987  
**"Head Protection in Sports"**
118. First "Neurosurgery in the Rockies", Vail, Colorado March 6-10 1988.  
**"Cerebral Ischemia"**

119. Fourteenth Annual Primary Care Orthopedics, Aspen, CO August 15, 1988  
**"Surgery for Lumbar Disc Disease"**
120. Congress of Neurological Surgeons, Seattle, Washington, September 27, 1988  
**"Surgery for Recurrent Gliomas"**
121. Twentieth Annual Edgar A. Kahn Meeting, Ann Arbor, Michigan, October 21, 1988  
**"Brain Ischemia - Edema Syndromes"** Honored Guest for this meeting.
122. Presidential Address. Society of University Neurosurgeons Meeting, Toronto, Ontario, May 5, 1989.  
**"Intravenous Fluids in Neurological Diseases"**.
123. American Association of Neurological Surgeons Meeting, Washington, D.C., April 4, 1989.  
**"Syringomyelia"**
124. American Association of Neurological Surgeons Meeting, Washington, D.C., April 3, 1989.  
**"Management of the patient with SAH"**
125. Fifteenth Annual Orthopedic Conference. Aspen, Colorado, August 14, 1989  
**"Sciatica"**
126. American Association of Neurological Surgeons Meeting, Nashville, TN, May 2, 1990.  
**"Cerebral Protection for Cerebral Vascular Surgery"**
127. Rocky Mountain Neurosurgical Society Meeting, Vail, CO June, 1990.  
**"Dural Arteriovenous Anomalies"**
128. 16th Annual Orthopedic Conference, Aspen, CO Aug, 1990.  
**"Cervical Spine Disease"**
129. American Association of Neurological Surgeons Meeting, New Orleans, Louisiana April 25, 1991.  
**"Management of Spontaneous Intracerebral Hemorrhage"**
130. Rocky Mountain Neurosurgical Society Meeting, Jackson Hole, Wyoming. June, 1991.  
**"Anterior Cervical Disk Excision"**
131. Neurosurgery In the Rockies Meeting, Vail, CO, March 2001  
**"The History of Neurosurgery in the Rockies"**
132. American Association of Neurological Surgeons 38<sup>th</sup> Annual Meeting, Big Sky, MT, June 2003  
**"Cervical Stenosis and Associated Syringomyelia"**

**Scientific Activities:**

See end of Curriculum Vitae for  
chronological list of papers presented and  
invited discussions at local, state, and  
national levels.

**Present Research Support:**

Division of Neurosurgery: Contract with  
Fitzsimons Army Hospital Teaching,  
research and patient care. Nov. 1985-  
Oct., 1996, \$390,000 per year.