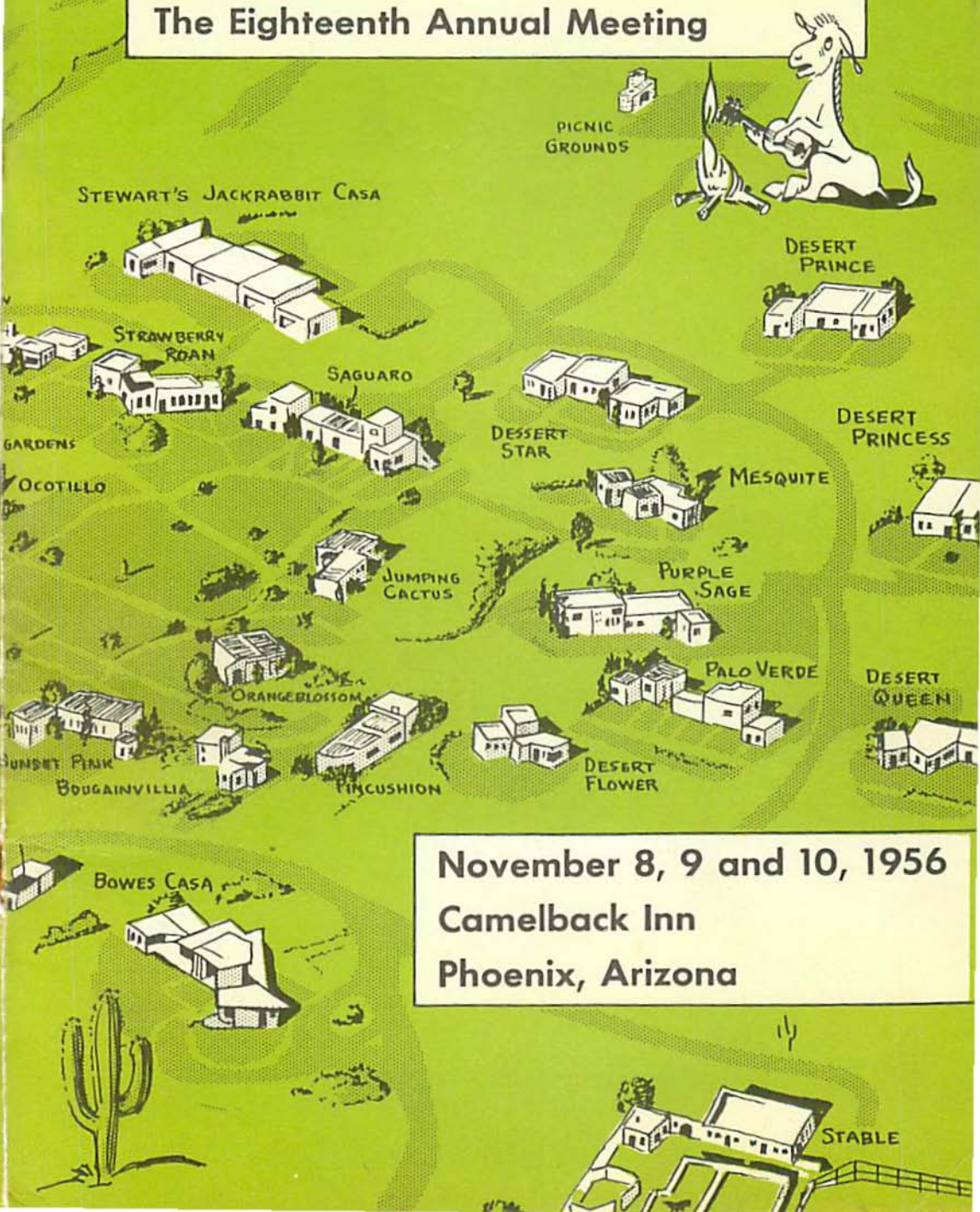


# THE AMERICAN ACADEMY OF NEUROLOGICAL SURGERY

Program of  
The Eighteenth Annual Meeting



November 8, 9 and 10, 1956  
Camelback Inn  
Phoenix, Arizona

THE AMERICAN ACADEMY  
OF NEUROLOGICAL SURGERY

*Eighteenth Annual Meeting*



CAMELBACK INN  
PHOENIX, ARIZONA

*November 8th, 9th and 10th, 1956*

# The American Academy Of Neurological Surgery

## OFFICERS 1956

Stuart N. Rowe, M.D. .... President  
 Jess D. Herrmann, M.D. .... Vice-President  
 Eben Alexander, Jr. M.D. .... Secretary-Treasurer  
 Mrs. John R. Green ..... President, Women's Auxiliary

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Stuart N. Rowe, M.D.	Jess D. Herrmann, M.D.
David L. Reeves, M.D.	Eben Alexander, Jr., M.D.
Benjamin Bradford Whitcomb, M.D.	

## PROGRAM COMMITTEE

W. A. Gustafson, M.D., Chairman  
 Lyle A. French, M.D.  
 James G. Galbraith, M.D.

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John R. Green, M. D.

### AWARD COMMITTEE

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 Thomas Ballantine, M.D.

### MEMBERSHIP COMMITTEE

Rupert P. Raney, M.D., Chairman  
 David L. Reeves, M.D.  
 Edward W. Davis, M.D.  
 Joseph P. Evans, M.D.

— NOTES —

**Thursday, November 8th, 1956**

9:00 A. M. — REGISTRATION

**Scientific Program**

Stuart N. Rowe, M.D., President, Presiding

Morning Session — 9:15 A.M.

**1. EMBRYOLOGY OF THE PITUITARY.**

C. Hunter Shelden, M.D., and Robert H. Pudenz, M.D.

An animated motion picture is to be shown to illustrate the origin and method of development of the anterior and posterior lobes of the pituitary gland. The movie is designated to correlate the embryological with the surgical findings. A brief resume is also shown of the surgical approach and the gross appearance of these tumors. 10 Minutes.

**2. FUNCTION OF THE PITUITARY IN MAN.**

D. M. Bergental, M.D., Bethesda, Maryland (By invitation)

The function of the pituitary in man, both from the point of view of hypersecretion and hyposecretion of its hormonal substances, has been most difficult to carefully evaluate for our present methods of assay have been so inadequate. The ability of the biochemist to isolate these protein hormones as pure substances has presented a major problem and has made it difficult to obtain pure hormones for an evaluation of their physiological action. An attempt will be made to discuss some of the present tests that are available for the determination of pituitary function and relate alterations in pituitary function to known disease states.

At the present time there seems to be no test or group of tests that will give complete assurance of a total anatomical hypophysectomy. The metabolic properties of exogenously administered pituitary secretions in man has been difficult to determine because of the formation of antibodies of the phenomena of species specificity. Examples of these difficulties will be discussed. The possible control of ACTH excretion by the posterior lobe hormone of the pituitary has been recently suggested by investigators in Italy and the United States. Data from our laboratory regarding this point will be presented. Control of post-hypophysectomy diabetes insipidus has been the major disagreeable side effect. The control of this diabetes insipidus at times has been difficult because of the patient's sensitivity to the pitressin. 20 Minutes.

**3. EXPERIENCES WITH PITUITARY ADENOMAS.**

Dean Echols, M.D.

This is a brief summary of personal experience with the surgical treatment of hypophysial adenomas of the chromophobe, eosinophilic, and mixed types.

— NOTES —

Most patients were operated on because of failing vision, but two had headache only and two had compression of the brain. Mention is also made of those treated by roentgen radiation only. 10 Minutes.

#### 4. THE USUAL PITUITARY ADENOMA.

Homer S. Swanson, M.D.

Our clinical and surgical knowledge pertaining to adenomas of the pituitary gland stem from the classical descriptions set forth by Cushing. With the wider clinical experience and the accumulated data of many investigators during the past thirty years, it becomes apparent that the hypophysial adenoma exhibits a tendency toward multiple and varied clinical manifestations. Those instances of variance from the anticipated syndrome are of extreme importance because of the diagnostic problems presented and the increased surgical hazards common to this group.

In this presentation, an attempt will be made to delineate the syndrome of pituitary apoplexy. In addition, the problem of extra-sellar extension of the pituitary adenomas will be discussed and brief reference will be made to some of the unusual radiological aspects of the adenomas of the pituitary gland. 10 Minutes.

#### 5. HYPOPHYSEAL TUMORS — METHODS OF TREATMENT.

Hannibal Hamlin, M.D., and Oscar Hirsch, M.D. (By invitation)

Summary and appraisal of current methods of treatment of the several types of hypophysial tumors with an effort to formulate where and when transphenoidal — transfrontal and various radiation techniques are indicated. 10 Minutes.

#### 6. HYPOPHYSECTOMY.

Lyle A. French, M.D.

This report concerns our experience up to July, 1956, with thirty operations for removal of the pituitary gland in patients with breast cancer. This is a selected group of patients so the therapeutic results are not statistically significant. The preoperative medication and operative procedure will be discussed. At operation a wedge of the anteromedial portion of the frontal lobe is excised. It is felt this improves visualization of the chiasmal region and reduces complications. Subjective improvement has been observed in twenty-two, objective in eighteen, and metabolic in two patients. In five patients there was no evident response to the procedure. The longest duration of objective response has been twenty months post-hypophysectomy. Reactivation then occurred in this patient. Reactivation also occurred in seven other patients demonstrating objective responses after three to eighteen months of improvement. At the present time, nine of the thirty patients are still maintaining the initial objective improvement two to twelve months after hypophysectomy. In five patients temporary rhinorrhea occurred immediately





following the operation, three patients developed a post-operative meningitis and one of these died. A permanent unilateral visual disturbance occurred in two patients postoperatively, in one this was concomitant with development of meningitis; in the other peripheral vision was lost in one eye. In only one patient has there been a loss of smell. 10 Minutes.

DISCUSSION TO BE OPENED BY:

Dr. Rolf Luft, Sweden (By invitation)

Poolside Luncheon — 12:30 P.M. to 2:00 P.M.

Afternoon Session — 2:00 P.M. to 4:00 P.M.

## 7. ANATOMICAL CONSIDERATIONS IN STEREOTAXY.

L. V. Amador, M.D., Chicago, Illinois (By invitation)

During the past few years there has been a marked increase in human stereotaxy. Reports in the medical literature reveal that a great many operations upon the subcortical structures have been carried out by investigators here and abroad. The indications for this type of surgery vary from intractable pain to the extra-pyramidal disorders. Because of the importance of the relationship of the deep subcortical structures, we have made an anatomical atlas utilizing 100 brains which have been carefully perfused and sectioned. In this material it has become apparent that although there is some general correlation of structures we could not establish accurate anatomical correlations based upon a plane of the skull or brain. A series of slides will be presented which show the anatomical relationships and variations of the nuclei ordinarily considered in stereotaxic surgery. 10 Minutes.

Discussion.

## 8. FURTHER OBSERVATIONS UPON REGENERATION OF AXONS OF THE SPINAL CORD IN MAMMALS.

L. W. Freeman, M.D., Indianapolis, Indiana (By invitation)

Clinical observations during World War II on patients whose spinal cords had been damaged and who showed subsequent functional return indicated that at least two different explanations were possible — recovery of function in axons showing only temporary physiological arrest, and actual regrowth of severed axons. Experimentation with rats and dogs has detailed some of the factors in the first category. In similar animals, surgical severance of the spinal cord has been followed by return of function, quite definitely as a result of axonal regrowth. The exact origin of these regenerated axons has been the subject of extensive study. An attempt will be made to demonstrate that while good functional results can be obtained by the implantation of centrally connected nerve roots into the isolated distal stump of the divided spinal cord, it is probable that axons of internuncial origin also can and do have the same capabilities. 20 Minutes.

Discussion.

— NOTES —

## 9. LUMBAR SUBARACHNOID PERITONEAL SHUNT FOR HYDROCEPHALUS.

W. S. Keith, M.D., and E. B. Hendrick, M.D. (By invitation)

This is a study of the short term results from this operation. It covers a forty-four month period, from May, 1952, to December, 1955. Fifty-two consecutive cases were studied. Only children under one year at the time of the first operation are included. Two babies with communicating hydrocephalus were later found to have neoplasms. They both died and autopsies were done. Of the remaining fifty cases, seven died, three in hospital and four later at home. Of the forty-three patients who survived, over half have had only one operation, several have had two and a small number have had multiple operations. At least three have marked mental deficiency but the surprising thing about this series is the number of children who have done well and are socially acceptable in their homes, with this comparatively simple surgical treatment. 10 Minutes.

Discussion.

## 10. POSTERIOR FOSSA SURGERY IN CHILDHOOD. (Movie)

Donald D. Matson, M.D.

Technique of opening and closure of the posterior fossa in the sitting position in young children is demonstrated, and the following conditions are illustrated: 1. Congenital obstruction of the IVth ventricle. 2. Ventriculo-Cervical sub-arachnoid shunt for aqueduct occlusion. 3. Cerebellar astrocytoma. 4. Cerebello-pontine angle ependymoma. 20 Minutes.

Discussion.

EXECUTIVE SESSION — 4:00 P.M.

— NOTES —

**Friday, November 9th, 1956**

Dr. Jess Herrmann, Vice-President, Presiding

**Scientific Program**

Morning Session — 9:00 A.M. — 12:30 P.M.

**11. FRACTIONAL PNEUMOENCEPHALOGRAPHY.**

Alfred Uihlein, M.D.

Fractional pneumoencephalography is a safe and rapid way of estimating whether or not there is an obstructive lesion of the posterior fossa in the presence of or absence of papilledema — the technique will be described and illustrated with x-ray films. 5 Minutes.

**12. LAMINOGRAPHY IN CEREBRAL AIR STUDIES.**

John Raaf, M.D. and Fred Shipps, M.D. (By invitation)

Because of overlying air shadows in cerebral arteriograms or ventriculograms, deep lying structures are at times obscured — laminography may more clearly visualize lesions at a depth. 5 Minutes.

Discussion.

**13. TIMING CONTROL IN CEREBRAL ANGIOGRAPHY.**

Fred Shipps, M.D. (By invitation) and John Raaf, M.D.

By exact timing of the injection of diodrast or hypaque less material can be injected and better pictures visualized. An instrument to help control the timing is presented. 5 Minutes.

**14. A DEVICE FOR SIMULTANEOUS BIPLANE SINGLE INJECTION STEREO-SCOPIC ANGIOENCEPHALOGRAMS.**

Earl Miller, M.D. (By invitation) and Edwin Boldrey, M.D.

This device is currently being used at the University of California Hospital and simplifies the technical aspects of angioencephalography as well as reduces the cost for personnel and increases the safety of the examination. 5 Minutes.

**15. EXPERIENCES IN THE USE OF THE BIPLANE RAPID ANGIOGRAPH.**

William F. Meacham, M.D.

A discussion of the use of this apparatus with the technique involved in the use of the biplane angiograph. 5 Minutes.

**16. PREVENTION OF COMPLICATIONS FROM ANGIOGRAPHY.**

Arthur A. Ward, Jr., M.D.

To prevent vaso-spasm which follows injection of diodrast, a small quantity of procaine is injected into the carotid at the termination of the procedure. The rationale for this maneuver will be presented. 5 Minutes.

— NOTES —

17. USE OF 2.5% PAPAVERIN LOCALLY TO PREVENT OR RELIEVE VASOSPASM OF ARTERIES OF THE CIRCLE OF WILLIS AT OPERATION.

J. Lawrence Pool, M.D.

Topical application of 2.5% Papaverin solution by means of cottonoid strips relieves existing vasospasm of basal cerebral arteries and prevents mechanically induced vasospasm, as Dott and Gillingham have discovered. 5 Minutes.

Discussion.

COFFEE BREAK - - - 5 Minutes

18. OPERATIVE INSTRUMENTS FROM THE HARTFORD HOSPITAL WITH ESPECIAL REFERENCE TO TREPHINE EXPOSURE FOR SUPRATENTORIAL BRAIN LESIONS.

William B. Scoville, M.D.

Illustrative slides of instruments and techniques. 5 Minutes.

19. NEWER NEUROSURGICAL INSTRUMENTS AND TECHNIQUES — CURRETES AND ANEURISM CLIP.

Frank H. Mayfield, M.D.

Application of a new curette in removal of cervical hypertrophic masses, with demonstration by motion picture. The advantages of intracranial use of a positive-action aneurysm clip with demonstration by slides and instruments. 5 Minutes.

20. ELECTRACOAGULATION TECHNIQUES EMPLOYED AT MASSACHUSETTS GENERAL AND BOSTON VETERANS ADMINISTRATION HOSPITALS.

H. Thomas Ballantine, Jr.

Presentation and description of an electronic switch and plastic-coated instruments which together have greatly simplified electrocoagulation during neurosurgical procedures. 5 Minutes.

21. DISCUSSION OF THE TYPE OF RETRACTOR USED FOR FRONTAL TUMORS.

C. Hunter Shelden, M.D.

Discussion of a simple type of self-retaining retractor for elevation of the frontal lobe during transfrontal craniotomy with the patient in the face-forward position. 5 Minutes.

Discussion.

22. A COMPLETELY SUBDURAL TORKILDSEN OPERATION.

Wallace B. Hamby, M.D.

By putting a catheter through the tentorium and into the lateral ventricle, running it across the cerebellum, to be fastened with a stitch within the cisterna magna, and closing the dura, a completely intradural Torkildsen ventriculocisternostomy can be performed, eliminating many complications

— NOTES —



incident to other methods of running the tube.

5 Minutes.

Discussion.

### 23. ORBITAL DECOMPRESSION WITHOUT OSTEOPATHIC FLAP.

Howard A. Brown, M.D.

Adequate decompression of the orbit, particularly in malignant exophthalmos may be accomplished by a lateral approach without the necessity of an osteoplastic flap.

5 Minutes.

Discussion.

### 24. INDWELLING CATHETER FOR PERIODIC DRAINAGE OF CRANIOPHARYNGIOMA CYST.

James Greenwood, Jr., M.D.

A small rubber catheter used in the cavity of a craniopharyngioma cyst with its superficial end in the subcutaneous tissues made it possible to evacuate at intervals the cystic contents with minimal disturbance or trauma to the patient.

5 Minutes.

Discussion.

### 25. SUTURES.

Aidan A. Raney, M.D.

Widely spaced sutures reduce the danger of wound infection, operative wound hematomas, and are time-saving in wound closure.

5 Minutes.

### 26. PLASTIC NEUROSURGICAL PROCEDURES ON THE SCALP AND SKULL.

George Baker, M.D.

The valuable use of ivalon, acrylic plates and sliding scalp flaps will be demonstrated from slides.

5 Minutes.

### 27. LIQUID LUCITE.

George L. Maltby

We have found that "liquid lucite" is an efficient and apparently non-reactive substance to prevent bone regeneration in cases of cranial synostosis.

5 Minutes.

Discussion.

### 28. DISCUSSION OF VENTRICULO-AURICULAR SHUNTS.

Robert H. Pudenz, M.D.

Clinical experience with the latest model ventriculoauricular shunt tube, the method of implantation and advantages and results of its use will be presented.

5 Minutes

Discussion.

EXECUTIVE SESSION — 12:00 Noon

Poolside Luncheon — 1:30 P. M.

— NOTES —

# Saturday, November 10th, 1956

Morning Session — 9:00 A.M. — 12:30 P.M.

## Scientific Program

### 29. MASSIVE SUBDURAL HYDROMA COMPLICATING TORKILDSEN PROCEDURE FOR POSTERIOR THIRD VENTRICLE OR PINEAL TUMORS.

John M. Meredith, M.D.

A forty-one-year-old white male with a high degree of choked disc bilaterally was found to have a probable pinealoma or a posterior third ventricle glioma. A Torkildsen procedure was carried out after ventriculography. Post-operative x-ray therapy was given. He did well for six weeks then, headache, vomiting and irrationality developed. Approximately seven weeks after the right-sided Torkildsen procedure an enormous right sided subdural hydroma was found and drained with immediate relief of the disabling clinical syndrome, including definite choked discs bilaterally. He has remained well to date, nine months after the last operation. This post-operative complication of the Torkildsen procedure, new in our experience, is discussed with particular reference to the mechanism of its formation and its surgical relief.

10 Minutes.

Discussion.

### 30. RESULTS OF SURGERY FOR PSYCHOMOTOR EPILEPSY.

John R. Green, M.D., Harry F. Steelman, M.D. (By invitation)  
R. E. H. Duisbery, M.D., W. B. McGrath, M.D. (By invitation)  
Samuel Wick, M.D. (By invitation)

Anterior temporal lobectomy has been performed on 46 patients with psychomotor states between July, 1948, and March, 1956. Thirty were done in the Arizona State Hospital and 16 in a private hospital in Phoenix by the same team. An accounting is made of the results and a movie is presented to depict neurosurgical technique.

20 Minutes.

Discussion.

### 31. LOSS OF RECENT MEMORY AFTER BILATERAL SURGICAL LESIONS OF THE HIPPOCAMPUS.

William B. Scoville, M.D. and Brenda Milner, Ph.D., Montreal, Canada (By invitation)

In the course of some 280 fractional bilateral resections and undercutting operations on schizophrenic patients, 30 bilateral limited resections of the medial surface of the temporal lobe were also made. Surgical extension into this area was made because of the known relationship between the medial temporal and posterior orbital areas.

One striking behavioral result was observed after bilateral medial temporal lobe resections extensive enough to include portions of the hippocampal complex: this was a grave and persistent loss of recent memory, unaccompanied by other changes of intellect or personality. The severity of the mem-

— NOTES —

ory loss was proportional to the extent of hippocampal removal and was not observed unless the resection was bilateral and extended 5 centimeters or more posterior to the tips of the temporal lobes. 20 Minutes.

Discussion.

32. HIBERNOTHERAPY IN THE MANAGEMENT OF THE ACUTELY ILL NEUROSURGICAL PATIENT.

Alfred Uihlein, M.D.

The value of lowered body temperature in the management of the acutely ill neurosurgical patient has not been satisfactorily determined. The patient with an acute head injury has been benefited by the administration of cold during the early critical period of convalescence. Six acutely ill patients were subjected to the lowering of body temperature as a method of combating their serious neurologic condition. It was difficult to lower body temperature below 90 degrees Fahrenheit. Thorazine occasionally produced marked hypotension. In selected cases, hypothermia seems to aid the convalescence of the acutely ill neurosurgical patient. The management of these patients is difficult, and hibernotherapy should not be used unless the patient can have constant attention to maintenance of an adequate airway and the maintenance of electrolyte balance. 10 Minutes.

33. AWARD WINNER — Hubert L. Rosomoff, Lt., MC USNR

HYPOTHERMIA AND CEREBRAL VASCULAR LESIONS.

II. EXPERIMENTAL MIDDLE CEREBRAL ARTERY INTERRUPTION FOLLOWED BY INDUCTION OF HYPOTHERMIA. 20 Minutes

34. WORKABLE CLASSIFICATION FOR EVALUATION OF TREATMENT OF INTRACRANIAL ANEURYSM. 10 Minutes.

A. Earl Walker, M.D.

35. DISCUSSION OF NEUROSURGICAL TRAINING PROGRAM. 20 Minutes.

Edwin Boldrey, M.D.

TO BE PRESENTED BY TITLE:

A PLEA FOR EARLY OIL STUDY IN NEGATIVE EXPLORATION FOR LUMBAR DISCS WITH PERSISTENT SYMPTOMS.

John Meredith, M.D.

To recent instances of (1) intradural post-traumatic neuroma from extradural lumbar disc pressure, and (2) a lumbar disc with the lesion on the side opposite the patient's pain, both being shown by a preoperative oil study, prompted this report.

— NOTES —

**TREATMENT OF ACUTE TRAUMATIC POSTOPERATIVE ARACHNOIDITIS OF THE SPINAL CORD.**

**Benjamin Bradford Whitcomb, M.D.**

**By placing lumbar needles above and below a block, fresh adhesions have been interrupted by gentle hydrostatic pressure when introduced below the block by means of warm saline with immediate return of neurologic function.**

**EXECUTIVE SESSION — 12:00 Noon**



**Program of The Women's Auxiliary**  
of  
**THE AMERICAN ACADEMY OF NEUROLOGICAL SURGERY**

**PRESIDENT — MRS. JOHN R. GREEN**

**THURSDAY, NOVEMBER 8, 1956**

- 11:00 A.M. Registration Lobby of Camelback Inn  
12:30 P.M. Poolside Luncheon  
and  
1:30 P.M. Fashion Show by Holiday House of Scottsdale  
2:30 P.M. Tour of Resort Area and Scottsdale  
4:30 P.M. Horseback Ride ending at Chuckwagon Party  
6:00 P.M. Cocktail Time and Chuckwagon Dinner Party

**FRIDAY, NOVEMBER 9, 1956**

- 12:30 P.M. Poolside Luncheon  
7:00 P.M. Cocktail Party Pool Area  
8:00 P.M. Formal Banquet—Dancing until 1:00 A.M. Cholla

**SATURDAY, NOVEMBER 10, 1956**

- 12:30 P.M. Poolside Luncheon  
6:30 P.M. Cocktails Cholla  
7:30 P.M. Dinner Dining Room  
9:00 P.M. Dancing Cholla

**NOTE: For those who might like to go out "on the town," we suggest:**

The Lulubelle	Scottsdale
El Chorro	Near the Inn
Backstage Club	Phoenix
Green Gables	Phoenix
Navarre's	Phoenix



# Membership Roster

of

## THE AMERICAN ACADEMY OF NEUROLOGICAL SURGERY

FOUNDED OCTOBER 28, 1938

HONORARY MEMBERS — 5	ELECTED
Dr. Winchell McK. Craig Mayo Clinic, Rochester, Minnesota	1942
Sir Geoffrey Jefferson Department of Neurosurgery, The Royal Infirmary Manchester 13, England	1951
Dr. W. Jason Mixter Nobska West, Woods Hole, Massachusetts	1951
Dr. R. Eustace Semmes 899 Madison Ave., Memphis 3, Tennessee	1955
Dr. R. Glen Spurling 405 Heyburn Bldg., Louisville 2, Kentucky	1942

### CORRESPONDING MEMBERS — 1

Dr. O. William Stewart\*  
Montreal, Quebec  
\*Deceased

### SENIOR MEMBERS — 1

Dr. Olan R. Hyndman  
Veterans Administration Hospital  
Iowa City, Iowa  
1941

### ACTIVE MEMBERS — 61

Member's Name, Office Address, Residence Address	Year Elected	Wife's Name
Dr. Eben Alexander, Jr. Bowman Gray School of Medicine Winston-Salem 7, North Carolina 521 Westover Ave., Winston-Salem, North Carolina	1950	Betty
Dr. George S. Baker, Section of Neurological Surgery, Mayo Clinic, Rochester, Minnesota Salem Road, Route 1, Rochester Minnesota	1940	Enid

Member's Name, Office Address, Residence Address	Year Elected	Wife's Name
Dr. H. Thomas Ballantine, Jr. Massachusetts General Hospital Boston 14, Massachusetts 15 Common St., Dedham, Massachusetts	1951	Elizabeth
Dr. William F. Beswick 685 Delaware Avenue, Buffalo 9, New York	1949	Phyllis
Dr. Edwin B. Boldrey University of California Medical School San Francisco 22, California 924 Hayne Road, San Mateo, California	1941	Helen
Dr. E. Harry Botterell Medical Arts Building, 280 Bloor Street, West Toronto 5, Ontario 60 Bruscarth Road, Toronto, Canada	1938	Margaret
Dr. Spencer Braden 1304 Hanna Building, Cleveland 15, Ohio	Founder	Mary
Dr. F. Keith Bradford 410 Hermann Professional Building, 6410 Fannin Street Houston 25, Texas 3826 Linklea Drive, Houston 25, Texas	1938	Byra
Dr. Howard A. Brown 384 Post Street, San Francisco 8, California 127 San Pablo Avenue, San Francisco, California	1939	Dorothy
Dr. Harvey Chenault 200 West Second Street, Lexington 6, Kentucky Alleghan, Nicholasville Road, Lexington, Kentucky	1949	Margaret
Dr. Donald F. Coburn 221 Plaza Time Building, Country Club Plaza Kansas City 2, Missouri	1938	Max
Dr. Edward W. Davis 806 S. W. Broadway, Portland 5, Oregon 1714 N. W. 32nd Avenue, Portland 10, Oregon	1949	Barbara
Dr. Francis A. Echlin 164 East 74th St., New York 21, New York 164 East 74th Street, New York 21, New York	1944	Letitia
Dr. Dean H. Echols 3503 Prytania Street, New Orleans, Louisiana 1428 First Street, New Orleans 13, La.	Founder	Fran
Dr. Arthur R. Elvidge Montreal Neurological Institute, 3801 University Street Montreal 2, Quebec	1939	
Dr. Theodore C. Erickson 1300 University Avenue, Madison 6, Wisconsin	1940	Emily

Member's Name, Office Address, Residence Address	Year Elected	Wife's Name
Dr. Joseph P. Evans University of Chicago Clinics, Chicago 37, Illinois 1234 East 56th Street, Chicago 37, Illinois	Founder	Hermene
Dr. John D. French Veterans Administration Hospital Long Beach 4, California 10772 Chalon Road, Los Angeles 27, California	1951	Dorothy
Dr. Lyle A. French 2910 46th Avenue South, Minneapolis 6, Minnesota 2868 West River Road, Minneapolis 6, Minnesota	1954	Gene
Dr. James G. Galbraith 2020 15th Avenue South, Birmingham, Alabama 4227 Altamont Road, Birmingham, Alabama	1947	Peggy
Dr. Everett G. Grantham 405 Heyburn Building, Louisville 2, Kentucky 410 Mockingbird Hill Road, Louisville 7, Kentucky	1942	Mary Carmel
Dr. John R. Green 550 West Thomas Road, Patio A, Suite 202 Phoenix, Arizona 88 Country Club Drive, Phoenix, Arizona	1953	Georgia
Dr. James Greenwood, Jr. 1105 Hermann Professional Building, 6410 Fannin Street Houston 25, Texas 3394 Chevy Chase Blvd., Houston 19, Texas	1952	Mary
Dr. Wesley A. Gustafson 700 North Michigan Avenue, Chicago 11, Illinois 2129 Central Park, Evanston, Illinois	1942	Jennie
Dr. Wallace B. Hamby 140 Linwood Avenue, Buffalo 9, New York 19 Middlesex Road, Buffalo 16, New York	1941	Hellyn
Dr. Hannibal Hamlin 270 Benefit Street, Providence 3, Rhode Island	1948	Margaret
Dr. Jess D. Herrmann 525 Northwest Eleventh Street Oklahoma City 3, Oklahoma 1519 Glenwood, Oklahoma City, Oklahoma	1938	Mary Jo
Dr. Henry L. Heyl Hitchcock Clinic, Hanover, New Hampshire Norwich, Vermont	1951	Katharine
Dr. William S. Keith Toronto Western Hospital, 399 Bathurst Street Toronto 2B, Ontario	Founder	Eleanor

Member's Name, Office Address, Residence Address	Year Elected	Wife's Name
Dr. George L. Maltby 203 State Street, Portland 3, Maine Falmouth, Foreside, Maine	1942	Sim
Dr. Donald D. Matson 300 Longwood Avenue, Boston 15, Massachusetts 44 Circuit Road, Chestnut Hill 67, Massachusetts	1950	Dorothy
Dr. Frank H. Mayfield 506 Oak Street, Cincinnati 19, Ohio 3519 Principio Ave., Cincinnati 26, Ohio	Founder	Queenee
Dr. Augustus McCravey 540 McCallie Avenue, Chattanooga 3, Tennessee 130 North Crest Road, Chattanooga, Tennessee	1944	Helen
Dr. Robert L. McLaurin Cincinnati General Hospital, Cincinnati, Ohio 2470 Grandis Road, Cincinnati 8, Ohio	1955	Kathleen
Dr. William F. Meacham 2122 West End Avenue, Nashville 5, Tennessee 3513 Woodmont Blvd., Nashville 12, Tennessee	1952	Alice
Dr. John M. Meredith 1200 East Broad Street, Richmond 19, Virginia 3 Greenway Lane, Richmond, Virginia	1946	Etta
Dr. Edmund J. Morrissey 450 Sutter Street, Suite 520 San Francisco 8, California 2700 Vallejo Street, San Francisco, California	1941	Kate
Dr. Francis Murphey Suite 525, Physicians and Surgeons Building Memphis 3, Tennessee	Founder	Roder
Dr. Guy L. Odom Duke University School of Medicine Durham, North Carolina 2812 Chelsea Circle, Durham, North Carolina	1946	Suzanne
Dr. J. Lawrence Pool 710 West 168th Street, New York 32, New York	1940	Angeline
Dr. Robert Pudenz 696 East Colorado Street, Pasadena 1, California 2036 San Pasqual, Pasadena 10, California	1943	Ruth
Dr. John Raaf 1010 Medical Dental Building, Portland 5, Oregon 390 S.W. Edgecliff Road, Portland 1, Oregon	Founder	Lorene

Member's Name, Office Address, Residence Address	Year Elected	Wife's Name
Dr. Aidan A. Raney 2010 Wilshire Boulevard, Los Angeles 57, California	1946	Mary
Dr. Rupert B. Raney 2010 Wilshire Boulevard, Los Angeles 57, California 435 S. Curson Avenue, Los Angeles 36, California	1939	Alta
Dr. Theodore B. Rasmussen Montreal Neurological Institute 3801 University Street, Montreal 2, Canada 29 Surrey Drive, Montreal 16, Quebec, Canada	1947	Catherine
Dr. David L. Reeves 316 West Junipero Street, Santa Barbara, California 595 Picacho Lane, Montecito, Santa Barbara, California	1939	Marjorie
Dr. R. C. L. Robertson 411 Hermann Professional Building 6410 Fannin Street, Houston 25, Texas	1946	Marjorie
Dr. Stuart N. Rowe 302 Iroquois Building, 3600 Forbes Street Pittsburgh 13, Pennsylvania 6847 Reynolds Street, Pittsburgh 8, Pennsylvania	1938	Elva
Dr. Henry G. Schwartz Department of Surgery, Washington University Saint Louis 10, Missouri 2 Briar Oak, Saint Louis 24, Missouri	1942	Reedie
Dr. William B. Scoville 85 Jefferson Street, Hartford 14, Connecticut	1944	Emily
Dr. C. Hunter Shelden 696 East Colorado Street, Pasadena 1, California 1345 Bedford Road, San Marino, California	1941	Betty
Dr. Samuel R. Snodgrass University of Texas Medical Branch, Galveston, Texas	1939	Margaret
Dr. Homer S. Swanson 384 Peachtree Street, N.E., Atlanta 3, Georgia 1951 Mt. Paran Road, West Atlanta, Georgia	1949	La Myra
Dr. William H. Sweet Massachusetts General Hospital, Boston 14, Massachusetts 35 Chestnut Place, Brookline 46, Massachusetts	1950	Mary
Dr. Alfred Uihlein Section on Neurological Surgery, Mayo Clinic Rochester, Minnesota Sunny Slopes, Route 1, Rochester, Minnesota	1950	Ione

Member's Name, Office Address, Residence Address	Year Elected	Wife's Name
Dr. A. Earl Walker Johns Hopkins Hospital, Division of Neurological Surgery 601 N. Broadway, Baltimore 5, Maryland	1938	Terrye
Dr. Exum Walker 133 Doctors Building, Atlanta 3, Georgia 1819 Greystone Road, N.W., Atlanta, Georgia	1938	Frances
Dr. Arthur A. Ward, Jr. University of Washington School of Medicine Division of Neurosurgery, Seattle 5, Washington	1953	Janet
Dr. Thomas A. Weaver Suite 1005, Third National Building, Dayton 2, Ohio	1943	Mary
Dr. Benjamin B. Whitcomb 85 Jefferson Street, Hartford 14, Connecticut 38 High Farms Road, West Hartford, Connecticut	1947	Margaret
Dr. Barnes Woodhall Duke University School of Medicine Durham, North Carolina 4006 Dover Road, Hope Valley Durham, North Carolina	1941	Frances

# Guests of The Academy

1956

Dr. L. V. Amador .....	Chicago, Illinois
Dr. Frank M. Anderson .....	Los Angeles, California
Dr. Lindsay E. Beaton .....	Tucson, Arizona
Dr. D. M. Bergenstal .....	Bethesda, Maryland
Dr. Harold F. Buchstein .....	Minneapolis, Minnesota
Dr. W. Kemp Clark .....	Dallas, Texas
Dr. Henry M. Cuneo .....	Los Angeles, California
Dr. Richard E. H. Duisberg .....	Phoenix, Arizona
Dr. Charles W. Elkins .....	Tucson, Arizona
Dr. Robert G. Fisher .....	Hanover, New Hampshire
Dr. Juan E. Fonseca .....	Tucson, Arizona
Dr. David G. Freeman .....	San Diego, California
Dr. L. W. Freeman .....	Indianapolis, Indiana
Dr. Carl J. Graf .....	Buffalo, New York
Dr. John W. Hanbery .....	San Francisco, California
Dr. E. B. Hendrick .....	Toronto, Canada
Dr. W. C. Hickey .....	Sacramento, California
Dr. Curwood R. Hunter .....	Cincinnati, Ohio
Dr. Roman Arana Iniguez .....	Montevideo, Uruguay
Dr. John J. Lowrey .....	Honolulu, Hawaii
Dr. Rolf Luft .....	Sweden
Dr. J. H. McCracken .....	San Pedro, California
Dr. William B. McGrath .....	Phoenix, Arizona
Dr. Ernest W. Mack .....	Reno, Nevada
Dr. Charles P. Neumann .....	Tucson, Arizona
Dr. Alejo Marruyo Pazzi .....	Monterey, Mexico
Dr. E. Thornton Pfeil .....	Phoenix, Arizona
Dr. Kenneth G. Rew .....	Phoenix, Arizona
Dr. Hubert L. Rosomoff .....	Bethesda, Maryland
Dr. John E. Schramel .....	Phoenix, Arizona
Dr. Paul C. Sharkey .....	Houston, Texas
Dr. Fred C. Shipps .....	Portland, Oregon
Dr. Harry F. Steelman .....	Phoenix, Arizona
Dr. James R. St. John .....	Santa Barbara, California
Dr. Robert S. Tolmach .....	Houston, Texas
Dr. Keasley Welch .....	Denver, Colorado

## Past Meetings of The Academy

Hotel Peabody, Memphis, Tennessee .....	April 22, 1938
Roosevelt Hotel, New Orleans, Louisiana .....	October 27-29, 1939
Tudor Arms Hotel, Cleveland, Ohio .....	October 21-22, 1940
Ambassador Hotel, Los Angeles, California .....	November 11-15, 1941
The Palmer House, Chicago, Illinois .....	October 16-17, 1942
Hart Hotel, Battle Creek, Michigan .....	September 17-18, 1943
Ashford General Hospital	
White Sulphur Springs, West Virginia .....	September 7-9, 1944
The Homestead, Hot Springs, Virginia .....	September 9-11, 1946
Broadmoor Hotel, Colorado Springs, Colorado .....	October 9-11, 1947
Windsor Hotel, Montreal, Canada .....	September 20-28, 1948
Benson Hotel, Portland, Oregon .....	October 25-27, 1949
Mayo Clinic, Rochester, Minnesota .....	September 28-30, 1950
Shamrock Hotel, Houston, Texas .....	October 4-6, 1951
Waldorf Astoria Hotel, New York City .....	September 29—October 1, 1952
Biltmore Hotel, Santa Barbara, California .....	October 12-14, 1953
Broadmoor Hotel, Colorado Springs, Colorado .....	October 21-23, 1954
The Homestead, Hot Springs, Virginia .....	October 27-29, 1955

### PAST PRESIDENTS

Dean Echols .....	1938-39
Spencer Braden .....	1940
Joseph P. Evans .....	1941
Francis Murphey .....	1942
Frank H. Mayfield .....	1943
A. Earl Walker .....	1944
Barnes Woodhall .....	1946
William S. Keith .....	1947
Howard Brown .....	1948
John Raaf .....	1949
E. Harry Botterell .....	1950
Wallace B. Hamby.....	1951
Henry Schwartz .....	1952
J. Lawrence Pool .....	1953
Rupert Raney .....	1954
David L. Reeves .....	1955

### PAST VICE-PRESIDENTS

Francis Murphey .....	1941
William S. Keith .....	1942
John Raaf .....	1943
Rupert B. Raney .....	1944
Arthur Elvidge .....	1946
John Raaf .....	1947
Arthur Elvidge .....	1948
F. Keith Bradford .....	1949
David L. Reeves .....	1950
Henry Schwartz .....	1951
J. Lawrence Pool .....	1952
Rupert B. Raney .....	1953
David L. Reeves .....	1954
Stuart N. Rowe .....	1955

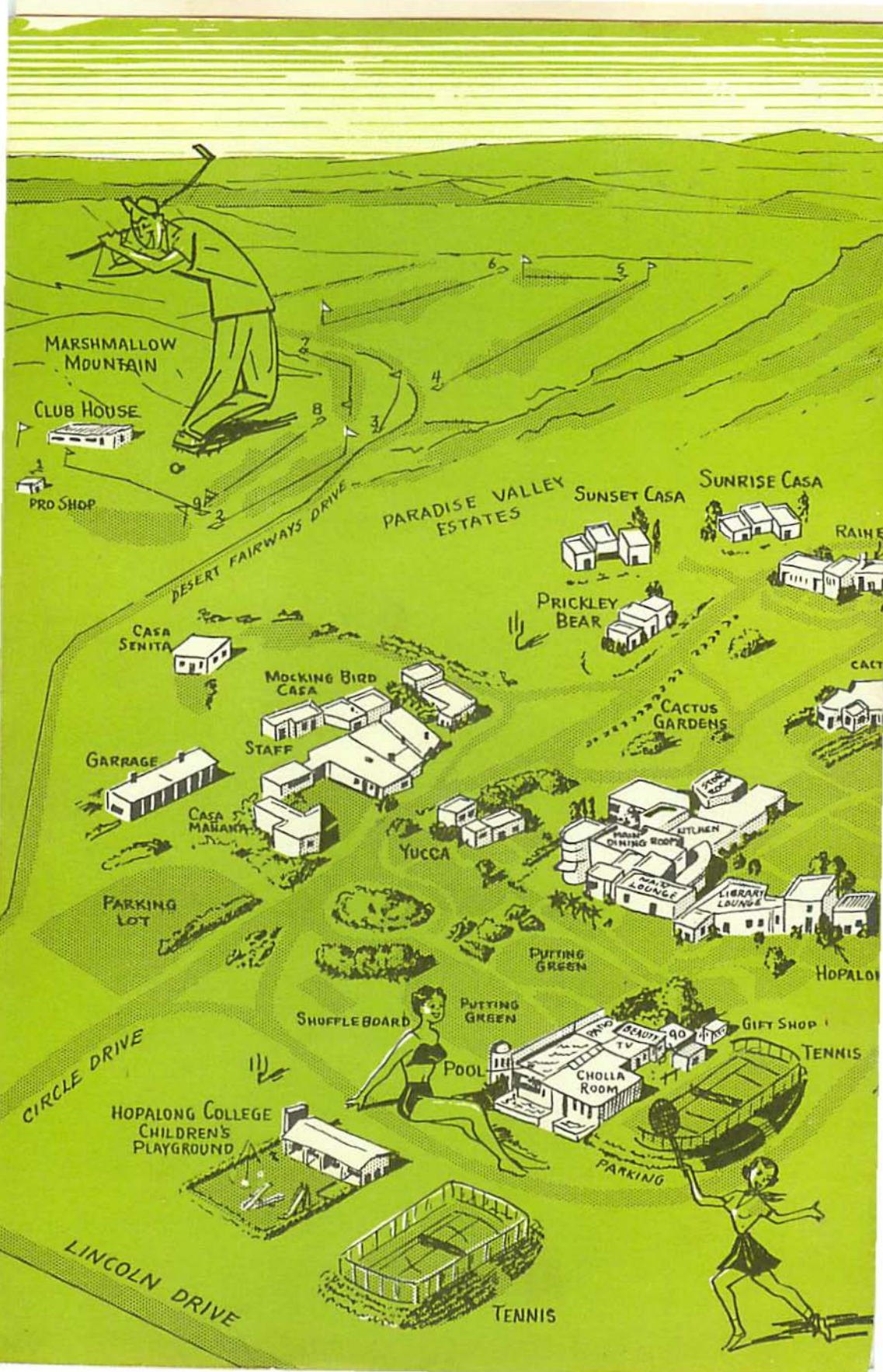
### PAST SECRETARY-TREASURERS

Francis Murphey .....	1938-39-40
A. Earl Walker .....	1941-42-43
Theodore C. Erickson .....	1944-46-47
Wallace B. Hamby .....	1948-49-50
Theodore Rasmussen .....	1951-52-53
Eben Alexander, Jr. ....	1954-55-56



— NOTES —

— NOTES —



MARSHMALLOW MOUNTAIN

CLUB HOUSE

PRO SHOP

DESERT FAIRWAYS DRIVE

PARADISE VALLEY ESTATES

SUNSET CASA

SUNRISE CASA

RAINFALL

PRICKLY BEAR

CASA SENITA

MOCKING BIRD CASA

CACTUS GARDENS

GARRAGE

STAFF

CASA MAHAKA

YUCCA

PARKING LOT

DINING ROOM  
KITCHEN  
MAIL LOUNGE  
LIBRARY LOUNGE

HOPALONG

CIRCLE DRIVE

SHUFFLEBOARD

PUTTING GREEN

POOL

GIFT SHOP

TENNIS

HOPALONG COLLEGE CHILDREN'S PLAYGROUND

PARKING

LINCOLN DRIVE

TENNIS