

# The American Academy of Neurological Surgery

FIFTEENTH ANNUAL MEETING
THE SANTA BARBARA BILTMORE • MONTECITO
SANTA BARBARA, CALIFORNIA
OCTOBER 12, 13, 14, 1953

@ 250 standard bolotomics, 3 deaths, 13%, sergines has used Starthan technique or must 70 pt. (90 gards) all lesions much in same place, just anterior and below the tip of the portal tip of the ventricle - reports or 30 cases & following of t mo or more - which electrode plecement & vertrienlyram - dura canterized + electrode pushed them 5 maising the dura so the dura helps anchor the electrodes - uses Boire set è asquelation at 20 + current applied for 30 sec. - 17 good results, 10 injerved, 2 jailures, I death -Startham - 195 cases - 3 deaths early in series pain cases could be improved by second or third coagulation, psycholic cases not improved by reoperation (5) pt. had 2 Julie sugues Jollowed by left hemiphies -dweloped segues 3 yr. later (4 yr. 7 agr) - 1 to 15 daily - operation at age 14 yr. - no segures during 15 mo. since peration - less sparticity - mental stetus improved -

# Abstracts of Papers Appearing in Scientific Program

OF

# THE AMERICAN ACADEMY OF NEUROLOGICAL SURGERY OCTOBER 12, 13, 14, 1953

(2) Intracerebral Stimulation and Recording in Ambulatory Patients
BY: HANNIBAL HAMLIN, M.D., AND WILLIAM H. SWEET, M.D.

Cinematographic film is made up of sequences showing method of intracerebral implantation of electrodes, effects of stimulation on posture and overt behavior, and recorded alterations in electrical activity of the brain. Included are shots of a patient undergoing electrolytic interruption of points in frontal fibertracts selected on the basis of focal EEG abnormality.

(3) Electrical Activity from Chronically Isolated Monkey Cerebral Cortex
A Preliminary Report

BY: FRANCIS A. ECHLIN, M.D.

The electrical activity was recorded from areas of monkey cerebral cortex which had been neuronally isolated, or partially isolated, three to five months previously. The investigation was designed to study particularly the spontaneous waves which were present in the partially isolated cortex and the effect of electrical stimulation, of metrazol, and of acetyl choline on this activity. The following conclusion were drawn.

#### CONCLUSIONS:

1. The electrical activity from the chronically partially isolated monkey cortex is very similar to that seen in monkey cortex treated with alumina cream.

tively developed suboccipital meningoceles associated with ventricular hypertension. Attempts were made in five of the six cases unsuccessfully to correct the suboccipital meningoceles by direct attack and subsequently lumbar subarachnoid peritoneal shunt was utilized and proved effective in controlling the ventricular hypertension. The cases consisted of two cerebellar hemangioblastomas, one acoustic neurinoma, one congenital glial cyst of the fourth ventricle, one posterior fossa arachnoiditis and one patient subjected to Torkildsen procedure in the surgical management of a pinealoma.

# The American Academy of Neurological Surgery

# Fifteenth Annual Meeting



# SANTA BARBARA BILTMORE SANTA BARBARA, CALIFORNIA

October 12, 13, and 14, 1953

\* \* \*

Dr. Edwin B. Boldrey

PROGRAM COMMITTEE:

Dr. C. Hunter Shelden

Dr. William H. Sweet

## Hosts:

Dr. and Mrs. Edwin B. Boldrey
Dr. and Mrs. Robert Pudenz
Dr. and Mrs. Howard A. Brown
Dr. and Mrs. Aidan A. Raney
Dr. John D. French
Dr. and Mrs. Rupert B. Raney
Dr. and Mrs. Edmond J. Morrissey
Dr. and Mrs. David L. Reeves
Dr. and Mrs. C. Hunter Shelden

O study of medial surface of temporal loh in eats +
markeys - stimulated hippocampus in eat € 15 cps
(square wave, theretion + sing wave) for 15-30 sec with low, SUNDAY, OCTOBER 11, 1953 for 15-30 sec with low REGISTRATION — SANTA BARBARA BILTMORE cat's behavious Cocktails and Supper at home of was not altered Dr. and Mrs. David L. Reeves
109 Picacho Lane, Montecito even the an exter discharge was produced - with larger intensities a rigure occurred that starts with menticatory movements - tilatinal removal of amygdala makes markup tame but does not produce the hyper swealthy sen in the Buy- Kluver seins - the taming does not occur & bilat. removal of the lateral corter of the temp. lobe - produced attacks in markey by injection of 10,000 unito o perualli - these appear after 1 hr., periest Ja up to 6 hs - don't love consciousness during there psychomotor attacks - discharge spreads to association areas + almost not at all in the central, visual of anditory areas - when discharge does appear in the motor areas consciousness is lost - bun holes - 8 pt. (6 psycholic, 2 pain problems) - square wave stimulation -Scorille - has removed medial surfaces of temporal lobe in 30 eases - in 2 & remember carried jurther posteriorly marked memory loss ensued - alstract 3 stab oreand made at 4 comers of area to be undercut, cluster injected & swept beneath certify + up to pin against prizes placed on the surface - long est following 5 mo - more activity present in EER at 5 mo. than at 1-2 mo -

# MONDAY, OCTOBER 12, 1953

# Scientific Program

J. LAWRENCE POOL, M.D., PRESIDENT, Presiding

9:30 A.M. OPENING OF MEETING AND WELCOME

9:35 A.M. (1) Functions of the Temporal Lobe.

15 minutes

MOVIE

A. EARL WALKER, M.D.

9:55 A.M. (2) Intracerebral Stimulation and Recording in 15 minutes
Ambulatory Patients.

MOVIC CASES STUDIED by Delgado + Hamlin

10:15 A.M. (3) Electrical Activity from Chronically Isolated
Monkey Cerebral Cortex. A Preliminary Report.

FRANCIS A. ECHLIN, M.D.

10:35 A.M. DISCUSSION.

JOHN D. FRENCH, M.D., and T. C. ERICKSON, M.D.

11:15 A.M. (4) Experiences with the Grantham Technique in 15 minutes Prefrontal Lobotomy. Howard D. McIntyre, M.D., Frank H. Mayfield, M.D., and Aurelia P. McIntyre, M.D.

11:30 A.M. DISCUSSION.

11:40 A.M. (5) Hemispherectomy in the Treatment of Convulsive Seizures and Progressive Mental Deterioration in Infantile Hemiplegia.

MOVIE DONALD D. MATSON, M.D.

12:30 P.M. LUNCHEON IN LOGGIA ROOM Members, Wives, and Guests.

1:45 P.M. (6) Proximal Differential Section of the Seventh
Cranial Nerve in Facial Tic. — Cranial
WILLIAM B. SCOVILLE, M.D.

O very reposed at mestered foremen - 3/4 of the news ent pist provinced to pist major branch - cut never longthuise prior than turn knife of out pilers superficial to this out - must ent mough of the news to cause definite parens of the free

out signant of the never is turned back & sutured to musels - 8 mis. to be you followup - all have had some return of the tie but in 5 the result is still good-1 abstract -Schwarts - does then then C1-2 laming 5 love removal - does not set doutate attachment - cut just to the ant root - insert knips just does at to the dentate - has abandoned thoracic cordotory - does bilat. sections at this same level -8 abstract -9 abstract - 21 malgnout turners in 19 members of this family -by & screening of buttocks + undefficientiated floring 8 yr. 2 left project temporal glionia - screening of wrist also -19 ap q - aunt of about 2 children - left poutal astronytoma - died 11 days portops q - aunt - CA of both breasts -14 yr 8 - gliona - died 10 54 cases in 14. - 10 were atypical facial pains, did
not get as good results - 70% had complete relief
7 their pain - 7 temperary facial paresis Braden - 4 cases - 5 complete relief - horpes more severe + more extrusive Colum - 5 cases - 3 had more exposure of gauglion - all had relay of pain -

2:00 P.M. DISCUSSION.

RUPERT B. RANEY, M.D.

- 2:10 P.M. (8) Thrombosis of Superior Longitudinal Sinus. 10 minutes
  WILLIAM S. KEITH, M.D.
- 2:20 P.M. (9) Familial Malignancy with Gliomata in 10 minutes Siblings.

  WILLIAM F. MEACHAM, M.D.
- 2:30 P.M. (10) Trigeminal Nerve Root Decompression. One Year Follow Up (movie).

  Alfred Uihlein, M.D.

3:00 P.M. INTERMISSION.

3:30 P.M. BUSINESS MEETING. MEMBERS ONLY.

## TUESDAY, OCTOBER 13, 1953

# Scientific Program

- 9:00 A.M. (11) Application of 23 MEV X-rays (Betatron) 15 minutes to the Treatment of C.N.S. Tumors.

  ARTHUR ARNOLD, M.D.
- 9:20 A.M. (12) Experimental Note on the Treatment of 15 minutes
  Advanced Malignancy by Hypophysectomy.

  THEODORE B. RASMUSSEN, M.D., PAUL HARPER, M.D., and
  THELMA KENNEDY, M.D.
- 10:00 A.M. (13) Neurosurgical Experiences with Diabetes 15 minutes Insipidus.
  E. HARRY BOTTERELL, M.D.
- 10:30 A.M. (14) Roentgenographic Aspects of Sellar and 30 minutes Parasellar Lesions.

JOHN D. CAMP, M.D.\*

\* By Invitation.

1 5 weet - arsenic 14 in external localization of brain tumors positron emitter - tumor - hain ratio is 10 to 1 at 1 kg , is 5to 1 at 24 h, but breakjation NOTES in muscle is much lower so temperal tumors are localized best them - automatic occurring equipment ignores reattered rays & counts only the virtual traveling gamma rays - 17 day physical half life but only 1 day brologic half life - examination takes 1 hr - 1/2 to 2 mc. as assent + assent (25 minoruris por kilogram) 16 42 Ja slowly graving neeplasms -(13) abstract - 20 adult cases - 5 trauma, 2 tuma, 1 surevidores, 12 undetermined -Obvictiona - 22 cases for adenoca a breast - temporary dialetes insignidus chargepeurs in 4-6 weeks - persistent dialetes means remaining art. lobe tissue -(4) (5) abstract 45 ventriule peritoneal ahent 1 29 hydroupholus 10 times 4 pseudotung portry tuby becomes stiff in terines + 6 TB menengitis 55 miscellaneous total cases - 89 9 operations - 18 pt surine - tuly that will pass them a 13 grage needle new uses polythylens only 5 injuntil hydrocephalus - longest Jollowy 21/2 yr. - hydrocephalus airested in 4, 1 died of wound infaction -

- 11:00 A.M. (15) Tumors of the Optic Chiasm (movie). C. HUNTER SHELDEN, M.D., and ROBERT PUDENZ, M.D.
- A Discussion of Unusual X-ray Films Pre-11:30 A.M. sented for Diagnosis.

JOHN D. CAMP, M.D.\*

1:00 P.M. BUSSES LEAVE SANTA BARBARA BILTMORE FOR BARBECUE AT SAN MARCOS RANCH. Members, Wives, and Guests.

# WEDNESDAY, OCTOBER 14, 1953

# Scientific Program

- 9:00 A.M. (16) Peritoneal Shunt in the Treatment of 10 minutes Hydrocephalus. IRA JACKSON, M.D., and SAMUEL R. SNODGRASS, M.D.
- 9:15 A.M. (17) Lumbar Subarachnoid Peritoneal Shunt in 10 minutes the Surgical Management of Postoperative Suboccipital Meningoceles. HOMER S. SWANSON, M.D.
- DISCUSSION. 9:30 A.M. JOHN RAAF, M.D., and HENRY G. SCHWARTZ, M.D.
- 10 minutes 10:00 A.M. (18) Permanent Drain for Syringomyelia. DEAN H. ECHOLS, M.D., and HOMER KIRGIS, M.D.
- 10:20 A.M. (19) Chemically Induced Hypotension in Neuro-15 minutes logical Surgery. BARNES WOODHALL, M.D., and GUY L. ODOM, M.D.
- 10:35 A.M. (20) Analysis of Cause of Death in Cases of 15 minutes Operated and Unoperated Sacular Aneurysm. ARTHUR R. ELVIDGE, M.D.

<sup>\*</sup> By Invitation.

13 had prurous meningitio - 8 communicating - 12 operations - 4 pt. died of recurrence of infection - 11 operations - NOTES 4 living - 3 still have increased pressure -9 associated & spina lipide - 17 operations -(17) abstract -Raaf - mone of his operations work & very great success -Schwartz - shouts into follopian tubes - 12 cases (8 lumbar, 4 ventricular) - tubes begin to punction after 12-24 h - no elictrolyte problems - 3 mes to 3 yr. - 1 to 12 mo followy - 11 still working -Rillary - uses perstoned short to drain sulderal humatoma of infancy -Matson - a pew shunts work, many don't -18 Long capt of brain stem + cord - closed up a neuronce of symptoms after 4 weeks - reperation 1 mo later = tautalum wire drain has resulted in cure for 7 yr. to date wire setured to dura , new they cairty bringing it out lover down + the anchored to dura - movement of and on wire leagues drain working -Austafson - 35 cans - removes C1, 2, 3 laming, diagnostic aspiration of cainty only - conquession may be due to love, dura, orlanded Chiari malformation -Drew - 8 cases - pollowyp prop to 4 yr, - 4 arrested, 4 ingeroved -

10:50 A.M. (21) Subdural Hematoma Associated with Intracranial Aneurysm.

SPENCER BRADEN, M.D.

11:05 A.M. DISCUSSION.

11:30 A.M. (22) Internal Carotid Embolectomy.

Francis Murphey, M.D.

1:00 P.M. LUNCHEON AT CORAL CASINO.
Members, Wives, and Guests.
Official photograph.

2:30 P.M. FINAL BUSINESS MEETING. MEMBERS ONLY.

6:30 P.M. COCKTAILS — BILTMORE HOTEL PRIVATE BAR. FORMAL. Members, Wives, and Guests.

7:30 P.M. ANNUAL BANQUET IN LOGGIA ROOM. FORMAL. Members, Wives, and Guests.

PRESIDENTIAL ADDRESS

Neurosurgery and the Mind J. LAWRENCE POOL, M.D.

Dancing.

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EXHIBIT OF ELECTRONIC EQUIPMENT BY
THE MEDITRON COMPANY
PASADENA, CALIFORNIA

Matson - experimental production of adhesions about porterior force resulted in production of cairty in upper cereial cord in 40-80 % of aminals NOTES Pool (initial of 19) following of ant choroidal ligation Ja Parkinsonion - Cooper now has done 35 cases temporary hemianessia clears in 2 who - more of feet on rigidity than as tremos - 3 deaths in get over 50 - pt not made weaker -Walker - 2 cases - French surgeons conterize globus pallidus for Parkinsonism - postencephalitic case had good result tic cramectomy opening - second branch of int caroticl is the ant chorodal in 50%, of antopay brains, in 20% there are 2 ant chorondal, in 20% there is no ant charondal coming from int. carotid - second case, older woman had no change agtes operation day-injured in globus pullidus - good result only in 1 ports encephalitic case, a young man-(20) ruren y last 30 autopay cases 18 cases of saccular anewyous of anth circle of Willis all had middle cerebral infarction in addition to hemorrhage
in some cases of 2) 3 cases - no contiguity between aneuryon + the subdural hematoma - Marfield - 5 cases -22 2 cases - throwbes 4-5 cm long after int. carotic ligation-

# Program of The Ladies' Auxiliary of

# The American Academy of Neurological Surgery

#### PRESIDENT - MRS. ALTA RANEY

SUNDAY, OCTOBER 11TH

6:00 P.M. COCKTAILS AND SUPPER AT HOME OF DR. AND MRS. DAVID L. REEVES 109 PICACHO LANE, MONTECITO

MONDAY, OCTOBER 12TH

8:00-9:30 A.M. REGISTRATION, MEMBERS AND GUESTS.

11:00-12:00 NOON REGISTRATION, LADIES.

12:30 P.M. COCKTAILS AND LUNCHEON IN LOGGIA ROOM. Members, Wives, and Guests.

AFTERNOON FOR THE LADIES.

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#### SHOPPING IN SANTA BARBARA

A FEW OF THE INTERESTING SHOPS . .

EL PASEO SHOPS
I. MAGNIN & CO.
THE CHILDREN'S SHOP
FLORENCE BOYD'S CHILDREN'S SHOP
ELIZABETH CLEMENS' SHOP
ELLIS HYDE'S SHOP
EL PRESIDIO SHOPS

#### FOUR INTERESTING ANTIQUE SHOPS .

114 E. DE LA GUERRA STREET 730 ANACAPA STREET 39 E. DE LA GUERRA STREET 924 ANACAPA STREET

#### TUESDAY, OCTOBER 13TH

1:00 P.M. BUSSES LEAVE BILTMORE HOTEL FOR BARBECUE AT SAN MARCOS RANCH.

Members, Wives, and Guests.

#### SAN MARCOS RANCH

This barbecue is being held on a part of what is known as the San Marcos Ranch. From 1786 until 1833 this ranch was under the jurisdiction of the Santa Barbara Mission. The ruins of an old Franciscan Chapel are just across the highway. The Franciscans held this property as trustees for the Indians, and it was their plan to educate the Indians in the care of livestock and in farming and then allot to each Indian family a certain acreage; however, this never came to pass for the reason that in 1833 the Franciscan Church properties were confiscated by the Mexican Government.

The San Marcos Ranch consisted of 35,000 acres—the Santa Ynez River running through the entire property from East to West. In the year 1846 the Mexican Governor of California, Pio Pico, arranged to dispose of the San Marcos Ranch to Nicholas and Richard Den for a price of \$1,500.00, and it might be of interest to know how this transaction was completed. After the agreement between the Dens and the Governor of California regarding the purchase of the San Marcos Ranch was made, it was necessary for the purchasers to appear before Judge Carrillo of the District of Santa Barbara to obtain a legal title to the property. The Judge, therefore, ordered a survey of the ranch, and two men were appointed by him to make this survey. They were supplied with a rope 135 feet in length to be used in measuring the property, and they accomplished this task on horseback. A description was then prepared of the boundaries from this survey, and a deed was given to the Dens by Judge Carrillo. However, in order to show that the Dens were in physical possession of the property it was necessary to follow another procedure customary at that time which is described as follows:

Judge Carrillo, accompanied by witnesses and the Dens, went to the San Marcos Ranch and the Dens broke branches of trees, scattered handfuls of earth, and pulled plants from the ground. This demonstration established the Dens as the true owners of the San Marcos Ranch.

The Dens stocked the ranch with cattle, and the record shows that Richard Den, who lived on the San Marcos Ranch, reported it was not a safe place for man or beast to live due to the great number of ferocious bear.

The ranch has changed hands four times since the original purchase by the Dens. Much of the San Marcos Ranch is now to be used as a reservoir for the Cachuma Dam—a 35 Million Dollar Project—which is nearing completion.

WEDNESDAY, OCTOBER 14TH

1:00 P.M. LUNCHEON AT CORAL CASINO.
Members, Wives, and Guests.
Official photograph.

Swimming in the Casino pool, Golf at the Valley Club, or Sight-seeing tour of Santa Barbara.

6:30 P.M. COCKTAILS — BILTMORE HOTEL PRIVATE BAR. Members, Wives, and Guests.

7:30 P.M. FORMAL BANQUET AND DANCING.
BILTMORE HOTEL LOGGIA ROOM.
Members, Wives, and Guests.

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## NOTES

#### 1952-1953

#### THE AMERICAN ACADEMY OF NEUROLOGICAL SURGERY

#### **OFFICERS**

President, J. LAWRENCE POOL
Vice-President, RUPERT B. RANEY
Secretary and Treasurer, THEODORE B. RASMUSSEN
Executive Committee, J. LAWRENCE POOL Chr.

Executive Committee, J. LAWRENCE POOL, Chm. RUPERT B. RANEY
THEODORE B. RASMUSSEN
HENRY G. SCHWARTZ
GUY L. ODOM

#### HONORARY MEMBERS

- 1. Dr. Winchell McK. Craig, Mayo Clinic, Rochester, Minnesota.
- Sir Geoffrey Jefferson, Department of Neurosurgery, The Royal Infirmary, Manchester 13, England.
- 3. Dr. W. Jason Mixter, Nobska West, Woods Hole, Massachusetts.
- 4. Dr. R. Glen Spurling, 405 Heyburn Bldg., Louisville 2, Kentucky.

#### EMERITUS MEMBER

1. Dr. Olan R. Hyndman, Veterans Adm. Hosp., Iowa City, Iowa.

#### ACTIVE MEMBERS

- Dr. Eben Alexander, Jr., Bowman Gray School of Medicine, Winston-Salem 7, North Carolina.
- Dr. George S. Baker, Section on Neurological Surgery, Mayo Clinic, Rochester, Minnesota.
- Dr. H. Thomas Ballantine, Jr., Massachusetts Gen. Hosp., Boston 14, Massachusetts.
- 4. Dr. William F. Beswick, 685 Delaware Ave., Buffalo 9, New York.
- Dr. Edwin B. Boldrey, Univ. of Calif. Medical School, San Francisco 22, California.
- Dr. E. Harry Botterell, Medical Arts Bldg., 280 Bloor St., W., Toronto 5, Ontario.
- 7. Dr. Spencer Braden, 1304 Hanna Bldg., Cleveland 15, Ohio.
- 8. Dr. F. Keith Bradford, 410 Hermann Professional Bldg., 6410 Fannin St., Houston 5, Texas.
- 9. Dr.-Howard A. Brown, 384 Post St., San Francisco 8, California.
- 10. Dr. Harvey Chenault, 200 West Second St., Lexington 6, Kentucky.

- Dr. Donald F. Coburn, 221 Plaza Time Bldg., Country Club Plaza, Kansas City 2, Missouri.
- 12. Dr. Edward W. Davis, 806 S. W. Broadway, Portland 5, Oregon.
- 13. Dr. Francis A. Echlin, 555 Park Ave., New York 21, New York.
- 14. Dr. Dean H. Echols, 3503 Prytania St., New Orleans, Louisiana.
- Dr. Arthur R. Elvidge, Montreal Neurological Institute, 3801 University St., Montreal 2, Quebec.
- 16. Dr. Theodore C. Erickson, 1300 University Ave., Madison 6, Wisconsin.
- 17. Dr. Joseph P. Evans, Cincinnati General Hospital, Dept. of Surgery, Cincinnati 29, Ohio.
- 18. Dr. John D. French, Veterans Administration Hospital, Long Beach 4, California.
- 19. Dr. James G. Galbraith, 2020 15th Ave. S., Birmingham, Alabama.
- 20. Dr. Everett G. Grantham, 405 Heyburn Bldg., Louisville 2, Kentucky.
- Dr. James Greenwood, Jr., 1105 Hermann Professional Bldg., 6410
   Fannin St., Houston 5, Texas.
- Dr. Wesley A. Gustafson, 700 North Michigan Ave., Chicago 11, Illinois.
- 23. Dr. Wallace B. Hamby, 140 Linwood Ave., Buffalo 9, New York.
- 24. Dr. Hannibal Hamlin, 270 Benefit St., Providence 3, Rhode Island.
- Dr. Jess D. Herrmann, 525 Northwest Eleventh St., Oklahoma City 3, Oklahoma.
- 26. Dr. Henry L. Heyl, Hitchcock Clinic, Hanover, New Hampshire.
- 27. Dr. William S. Keith, Toronto Western Hosp., 399 Bathurst St., Toronto 2B, Ontario.
- 28. Dr. George L. Maltby, 203 State St., Portland 3, Maine.
- 29. Dr. Donald D. Matson, 300 Longwood Ave., Boston 15, Massachusetts.
- 30. Dr. Frank H. Mayfield, 2314 Auburn Ave., Cincinnati 19, Ohio.
- 31. Dr. Augustus McCravey, 540 McCallie Ave., Chattanooga 3, Tennessee.
- 32. Dr. William F. Meacham, 2122 West End Ave., Nashville 5, Tennessee.
- 33. Dr. John M. Meredith, 1200 E. Broad Street, Richmond 19, Virginia.
- 34. Dr. Edmund J. Morrissey, 450 Sutter St., Suite 520, San Francisco 8, California.
- 35. Dr. Francis Murphey, Suite 525, Physicians & Surgeons Bldg., Memphis 3, Tennessee.
- 36. Dr. Guy L. Odom, Duke University—School of Medicine, Durham, North Carolina.
- 37. Dr. J. Lawrence Pool, 710 W. 168th St., New York 32, New York.
- 38. Dr. Robert Pudenz, 696 E. Colorado St., Pasadena 1, California.
- 39. Dr. John Raaf, 1010 Medical Dental Bldg., Portland 5, Oregon.
- 40. Dr. Aidan A. Raney, 1136 W. Sixth St., Los Angeles 17, California.
- 41. Dr. Rupert B. Raney, 1136 W. Sixth St., Los Angeles 17, California.
- 42. Dr. Theodore B. Rasmussen, 950 E. 59th St., Chicago 37, Illinois.
- 43. Dr. David L. Reeves, 316 W. Junipero St., Santa Barbara, California.

- 44. Dr. R. C. L. Robertson, 411 Hermann Professional Bldg., 6410 Fannin St., Houston 5, Texas.
- 45. Dr. Stuart N. Rowe, 516 Medical Arts Bldg., 3700 Fifth Ave., Pittsburgh 13, Pennsylvania.
- Dr. Henry G. Schwartz, Dept. of Surgery, Washington Univ., St. Louis 10, Missouri.
- 47. Dr. William B. Scoville, 85 Jefferson St., Hartford 14, Connecticut.
- 48. Dr. C. Hunter Shelden, 696 E. Colorado St., Pasadena 1, California.
- Dr. Samuel R. Snodgrass, Univ. of Texas Medical Branch, Galveston, Texas.
- 50. Dr. Homer S. Swanson, 384 Peachtree St., N. E., Atlanta 3, Georgia.
- Dr. William H. Sweet, Massachusetts General Hospital, Boston 14, Massachusetts.
- 52. Dr. Alfred Uihlein, Section on Neurological Surgery, Mayo Clinic, Rochester, Minnesota.
- Dr. A. Earl Walker, Johns Hopkins Hospital, Division of Neurological Surgery, 601 N. Broadway, Baltimore 5, Maryland.
- 54. Dr. Exum Walker, 133 Doctors Bldg., Atlanta 3, Georgia.
- Dr. Thomas A. Weaver, Suite 521, Third National Bldg., Dayton 2, Ohio.
- 56. Dr. Benjamin B. Whitcomb, 85 Jefferson St., Hartford 14, Connecticut.
- Dr. Barnes Woodhall, Duke University—School of Medicine, Durham, North Carolina.

# NOTES

#### GUESTS OF THE ACADEMY-1953

Frank M. Anderson, Los Angeles, Calif. M. Hunter Brown, Los Angeles, Calif. John D. Camp, Los Angeles, Calif. Ralph B. Cloward, Honolulu, T.H. Herbert G. Crockett, Los Angeles, Calif. Henry M. Cuneo, Los Angeles, Calif. John H. Drew, Mercer Island, Wash. Howard W. Dueker, North Hollywood, Calif. Capt. Richard Garrity, M.C., U.S.N. John R. Green, Phoenix, Ariz. Jerome F. Grunnagle, Pittsburgh, Pa. Wolfgang Klemperer, Seattle, Wash. Carl W. Rand, Los Angeles, Calif. Robert W. Rand, Los Angeles, Calif. A. T. Rasmussen, Pasadena, Calif. William Trowbridge, Long Beach, Calif. Arthur E. Wentz, Santa Barbara, Calif.