

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 deths, 13% segures has used Starthan technique on must 70 pt. (90 gents) all lesions much in same place, just anterior and below the tip of the portal tip of the ventricle - reports or 30 cases è followyp q 6 mo or more - cheko eletrode placement & varticulogram - dura canterized + electrode pushed them 5 incising the dura so the dura helps anchor the electrodes - uses Boire set & asquilation at 20 + curved applied for 30 sec. - 17 good results, 10 injerved, 2 jailures, I death -Srouthan - 195 cases - 3 deaths early in series pain cases could be improved by second or third conqulation, psycholic cases not improved by reoperation (5) pt. had 2 phil sugures followed by left hemiphies -dweloped segures 3 yr. later (4 yr. 7 agr) - 1 % 15 daily - operation at age 14 yr. - no segures during 15 mo. since greration - less sparticity - mentel 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:

 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 +
monthup - stimulated hippocampus in eat € 15 cps
(square wave, theretron + sing wave) for 15-30 sec with low voltages the 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 wer the an exter discharge was produced - with larger intensities a rigure occurred that starts with markintary movements - tilatiral removal of amygdala makes markup tame but does not produce the hyper severality sen in the Buy- Kliver seins - the taming does not occur & bilat. removal of the lateral corter of the temp. lobe - produced attacks in markeys by injection of 10,000 unito o perualli - these appear agter 1 hr., perint Ja up to 6 hr - don't love consciousness during their psychomotor attacks - discharge spreads to association areas + almost not at all in the central, visual of auditory areas - who discharge does appear in the motor areas consciousness is lost - bun holes - 8 pt. (6 psychotic, 2 pain problems) - square wave stimulation -Scorille - has removed medial surfaces of temporal lobe in 30 cases - in 2 & remarals carried jurther posteriorly marked memory loss ensued - abstract 3) state oreaned mode at 4 comers of area to be underent, cluster injected & swept beneath certify & up to pin against prizes placed on the surface - long and 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

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. — Leases

O never reposed at meeting foramen - 3/4 of the news ent just proximal to just major branch - out meres lengtherise prior than turn knife of out filers superficial to this out - must ent mough of the news to cause definite parisis of the face.

nusel - 8 ms. to be you followup - all have had some return of the tie but in 5 the result is still good-1 abstract -Solwarts - does then then C1-2 laming 5 home removal - does not set doutate attachment - cut just to the ant. root - insert knips just does at to the dentate - has abandoned thoracic conditiony - does bilat. sections at this same level -8 abstract -9 abstract - 21 malgnant tumors in 19 members of this family -4 yr & sarcoma of buttocks + undefficientiated flionia 8 yr. 2 left payto temporal glionia - sarcoma of wrist also -19 op q - aunt of about 2 children - left pontal astronytoma - died 11 days portop q - aunt - CA of both breasts -14yr 8 - gliona - died D 54 cases in 140. - 10 were stypical facial pains, did not get as good results - 70% had complete relief of their pain - 7 temperary facial paresis -Bradey - 6 cases - 5 complete relief - hopes more never + more extrusive Colum - 5 cases - 3 had more exposure of gauglion - all had rely 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.

D 5 weet - arenic 74 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 localization NOTES in muscle is much lower so temperal tumors are localized best them - automatic scarning equipment ignores seattlered rays & counts only the vertical trailing gamma rays - 17 day physical half life but only 1 day biologic half life - examination takes 1 hr - 11/2 to 2 mc. as arsenite + arsenate (25 microcuries per kilogram) 16 42 Ja slowly graving neeplasms -(13) abstract - 20 adult cases - 5 trauma, 2 tumor, 1 surevidores, 12 undetermined -Olivicrona - 22 cases for adenoca of breast - temporary dialetis insignidus cheappears in 4-6 weeks - persistent dialetis means remaining ant. loke tissue -(5) @ 29 hydroupholus 45 ventriule peritoneal shint 10 temes portry tuby becomes stiff in terines + le pseudotung L TB menengetis 55 miscellaneous 89 operations - 18 pt sugine - tuly that will pass them a 13 greage needle new was polythylen only 5 injuntile hydrocephalus - longest Jollowy 21/2 yr. - hydrocephalus arrested in 4, 1 died of wound infection -

- 11:00 A.M. (15) Tumors of the Optic Chiasm (movie).
 C. Hunter Shelden, M.D., and Robert Pudenz, M.D.
- 11:30 A.M. A Discussion of Unusual X-ray Films Presented 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 the Surgical Management of Postoperative Suboccipital Meningoceles.

 HOMER S. SWANSON, M.D.
- 9:30 A.M. DISCUSSION.

 JOHN RAAF, M.D., and HENRY G. SCHWARTZ, M.D.
- 10:00 A.M. (18) Permanent Drain for Syringomyelia. 10 minutes

 DEAN H. ECHOLS, M.D., and HOMER KIRGIS, M.D.
- 10:20 A.M. (19) Chemically Induced Hypotension in Neurological 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.

^{*} 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 mireared pressure -9 associated & sping lipide - 17 operations -(17) abstract -Raof - more of his operations work & very great success -Schwartz - shouts into pelloquain tubes - 12 cases (8 lumbar, 4 untricular) - tubes begin to junction after 12-24 hr - no electrolyte problems - 3 me to 3 yr. - 1 to 12 mo followys - 11 still working -Relany - une perstonel short to drain sulderal humatomia of infancy -Matson - a per shouts work, many don't -18 Long cypt of brain stem + and - closed up a neurrance of syngetones agter 4 weeks - resperation 1 mo later = tartalum eving drain has secreted in core for 7 yr. to date wire nutured to dura your thry courty bringing it out lower down + the anchored to dury - movement of and on wire keys drain working -Austafson - 35 caus - removes C1, 2, 3 laming, diagnostic aspiration of cauty only - conquession may be due to love, dura, orande Chiari malformation -Onen - 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.

* * *

EXHIBIT OF ELECTRONIC EQUIPMENT BY
THE MEDITRON COMPANY
PASADENA, CALIFORNIA

In Parkinsonion - Cooper now has done 35 cases temporary humianopsia clears in 2 who - more of feet on rigidity than as tremos - 3 deaths in pot over 50 - pt not made weaker -Walker - 2 cases - French surgeons conterize globus pullidus for Parkinsoniem - postency habiti case had good result tic cramectomy opening - second branch of int caroticl is the aut chorodal in 50%, of autopsy brains, in 20% there are 2 aut chorondal, in 20% there is no auto charondal coming from int. eardid - second ease, older woman had no change after operation day - injeret in globus pullidus - good result only in 1 posts encephalitic case, a young man-20) review of last 30 autopay cases 18 cases of saccular anewyous of anth circle of Willis all had middle contral infantion in addition to hemorrhay 2) 3 cases - no contiguity litures ancienzem + the subdural hematoma - Marfield - 5 cases -22) 2 cases - throwhere 4-5 cm long after int. carotid ligation-

Matson - experimental production of adhesions about porterior force resulted in production of cairty in upper cereial cord in 60-80 %. I aminal NOTES

Pool (initial of (9)) following of ant choroidal 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.

* * *

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.

* * *

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, 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.
- Dr. Joseph P. Evans, Cincinnati General Hospital, Dept. of Surgery, Cincinnati 29, Ohio.
- 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.
- 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.
- Dr. Edmund J. Morrissey, 450 Sutter St., Suite 520, San Francisco 8, California.
- Dr. Francis Murphey, Suite 525, Physicians & Surgeons Bldg., Memphis 3, Tennessee.
- 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.
- 46. 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.
- 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.
- 55. 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. Cunco, 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.

NOTES