

SIGMA GAMMA TAU - NATIONAL HONOR SOCIETY IN AEROSPACE ENGINEERING

Member, "Association of College Honor Societies"

PROCEDURE FOR ----- ELECTION AND REPORTING NEW MEMBERS,  
AND ORDERING CERTIFICATES AND KEYS

- A. Selection of new members (See Constitution Art. V)
1. Sophomores, Juniors and Seniors are eligible. See eligibility requirements in Article 5, Section 3.
  2. Graduate students selected by same criteria, except graduate members may also vote on graduate candidates.
  3. Professors and "members in the field" are nominated by graduate members only, using special forms, approval is by National Executive Committee. (Send to National Executive Secretary-Treasurer).
- B. Initiation procedure (suggested for each candidate elected)
1. Fill out Membership Record Card complete and give to Chapter Faculty Advisor for his signature. (Send to Nat'l Executive Secretary-Treasurer with fee).
  2. Read Constitution and History of Sigma Gamma Tau.
  3. Secure names and addresses of known (ones that can be found) alumni of chapter and have sent to Nat'l. Exec. Secretary-Treasurer to keep his records current.
  4. Membership Certificates should be ordered in time for initiation, keys also, if possible. (See ordering).
  5. Use simple Sigma Gamma Tau Ritual for initiation, preferably at banquet (See Constitution Art. VI). Non-engineering speakers okay.
- C. Ordering and reporting
1. Use proper order forms: (a) for Membership Certificates (give names, school, and initiation date), and (b) for Keys (give key choices).
  2. Send all orders (make letter or extra copy for chapter) along with signed membership record cards to Nat'l Exec. Secretary-Treasurer. He must sign all orders and have on file membership cards to verify all orders. (Association of College Honor Society suggestion).
  3. Orders received by jeweler after April 25 will be shipped May 31, or during the summer, to the school Departmental Office you designate. (Nat'l Exec. Sec.-Treasurer office is closed June, July and August - See Constitution).

# SIGMA GAMMA TAU



## NATIONAL HONOR SOCIETY IN AEROSPACE ENGINEERING

Member Association College Honor Societies

Purpose, Membership, Establishing New Chapters

History

Constitution

Chapters and National Officers

Procedure for Election, Reporting and Ordering

JULY - 1979

## PURPOSE

The purpose of Sigma Gamma Tau is summarized in the preamble of the Society's national constitution, which states: "The Sigma Gamma Tau Society is established to recognize and honor those individuals in the field of aeronautics who have through scholarship, integrity, and outstanding achievement been a credit to their profession. The Society seeks to foster a high standard of ethics and professional practices and to create a spirit of loyalty and fellowship, particularly among students of Aeronautical Engineering."

The name, Sigma Gamma Tau, signifies the merger of the parent organizations into a single strong organization which will continue to promote the ideals of those two Societies. All members of the two parent organizations Tau Omega and Gamma Alpha Rho became members of the new Society.

## MEMBERSHIP

The membership of the society will be those individuals accepted into the Society according to the provisions of the constitution, Article V. The persons eligible for membership include sophomore, junior, and senior aerospace engineering students and graduate students who meet the requirements stated in Article 5. Also individuals in the aerospace engineering profession who have made worthy contributions toward the advancement of the profession are eligible.

The members may be joined together in chapters or clubs. Chapters are named after the schools in which they are established. Clubs are named after the cities in which they are organized. Chapters may be established in colleges or universities offering an aerospace engineering curriculum or aerospace engineering as an option of another engineering curriculum where such curriculum or option is approved by the Engineers' Council for Professional Development.

## ESTABLISHMENT OF CHAPTERS AND CLUBS

Article III of Constitution gives the requirement for establishing clubs and chapters. A petition to establish a chapter in a qualified school may be presented to the Executive Council of Sigma Gamma Tau by five students who would be qualified for membership. A petition must include affirmation, by a faculty member, of the students' eligibility, and the statement from an authorized official of the school approving of the Society. The petition should be accompanied by a catalog or bulletin of the college and a statement of the number of students in the aeronautical curriculum and the number of degrees awarded during the last two years.

Detailed information regarding the establishment of chapters or clubs, and additional copies of this booklet containing the Constitution and History of the Society, may be obtained by writing to the Executive Secretary-Treasurer.

## HISTORY OF SIGMA GAMMA TAU

On February 28, 1953, a national convention was held at Purdue University for the purpose of merging two national honorary aeronautical engineering societies, Tau Omega and Gamma Alpha Rho, into a new society. The society established on that date was Sigma Gamma Tau with 14 Chapters, 1900 members and \$1,230.60 in its treasury. The final act of merging climaxed three years of work to unite the two societies.

TAU OMEGA. . . . The oldest of the two original societies was founded at the University of Oklahoma, Norman, Oklahoma, in the fall of 1927. A group of students interested in flying instruction and in the study of aeronautics organized under the leadership of J. Court Hayes, Earl O. Weining, James G. Haizlip, Warren E. Daniel and Orville Gulker, to promote this interest. This group perfected the organization of Tau Omega and drew up its constitution, rights and by-laws. In February, 1928, the fraternity obtained its charter and became national. It was then known as a National Honorary Aeronautical Engineering Fraternity.

The purpose of the fraternity was "to create, foster and maintain a spirit of fellowship and co-operation among the students of aeronautics and to promote scholarship and help to the best of its ability the progress of aviation."

In the early history of the fraternity, the membership was not made up entirely of engineering students. The enthusiasm for aeronautics generated by Tau Omega and the growth that ensued made it possible to restrict the membership to engineering students. Tau Omega was gradually expanded to other colleges and universities having aeronautical engineering curricula. These chapters have been active on their campuses in promoting aeronautical, educational and research activities.

Tau Omega annually published a magazine, The Contact, which was distributed to all members. At the time of the merger with Gamma Alpha Rho, Tau Omega had well over a thousand active, alumni, associate, and honorary members and nine chapters had been established.

The motto of Tau Omega, Quid Pro Quo, expressed the aim of attaining the result of aviation progress through the efforts of the members. The key of the fraternity consisted of an aircraft engine and propeller superimposed on a Maltese Cross. Also on the cross was a covered wagon and the lamp of learning signifying the pioneering spirit and the knowledge necessary for attainment in the field of aeronautics.

Eight more chapters were added during the years between the founding of the first chapter at the University of Oklahoma (Alpha) in 1927 and the merger in 1953.

## HISTORY. . . .

Chapter	Location	Year Founded
Beta	University of Wichita	1932
Gamma	University of Kansas	1935
Delta	Illinois Institute of Technology	1943*
Epsilon	University of Minnesota	1943
Zeta	University of Pittsburgh	1943*
Eta	Ohio State University	1950
	Georgia Institute of Technology	1951
	Carnegie Institute of Technology	1951

\*After World War II, Professors Fred Moch and L. A. Comp (Okla) succeeded in getting all chapters active, except the Zeta Chapter at the University of Pittsburgh which was never reactivated. Illinois Institute of Technology became inactive prior to the 1953 Convention.

GAMMA ALPHA RHO . . . . Meanwhile, a second honorary aeronautical engineering group was being established.

Initial work in the Society was started in the spring of 1945 by H. L. Flomenhoft, a student of Aeronautical Engineering at R.P.I. and H. Burlage, Jr., a member of the faculty. They discussed the possibility of forming such a group and also conducted an investigation to see if any other such organizations existed. After some preliminary talks as to the procedure, a first informal meeting was held during a trip to Sikorsky Aircraft Company. Dr. John Weske was the faculty member present and there were three students, Flomenhoft, Clarence Cohen and Steve Maslem.

Gamma Alpha Rho was founded during the summer and fall of 1954 at the Rensselaer Polytechnic Institute, in Troy, New York, with the view of having a national honorary aeronautical society. The date of formation has been chosen as October 21, 1945, as at that date the first formal meeting of the organization was held. The initial group of four senior students of the department of aeronautical engineering, H. L. Flomenhoft, C. Cohen, S. Maslem and A. Murphy were already members of a national undergraduate honor society. Working with the students were the following four members of the faculty of the department of aeronautical engineering: Dr. J. R. Weske, Dr. B. L. Newkirk, H. Burlage, Jr., and J. W. Miller, all of whom are also members of national honor societies.

The name of the society was chosen as Gamma Alpha Rho as these Greek letters are the ones most commonly used in the field of aeronautical engineering. The key was chosen as a Joukowski air foil superimposed upon its planning circle.

## HISTORY . . . .

The purpose of the society was to recognize those in the field of aeronautics who have distinguished themselves by scholarship, integrity, and achievements, and "to promote better understanding between the students and faculty and to develop a high plane of professional attitude, producing among undergraduates especially a better code of professional ethics. In attaining this, the Society is to act as a means of organizing aeronautical activities of both scientific and social nature."

Early in the winter of 1945 the first group of undergraduate students were elected into the society. For the spring term of 1945, Dr. John R. Weske presided as faculty advisor for the organization. During the spring meetings the plans for the expansion of the society to a national organization were formed and started. During the fall term 1946, the constitution was completed. Dr. Bert Newkirk was elected as faculty advisor with Henry Burlage, Jr., as co-advisor. Gamma Alpha Rho became a National Honorary Aeronautical Engineering Society in 1948.

In the years between these beginnings of Gamma Alpha Rho and the merger with Tau Omega, chapters were formed in other universities. By the end of 1952, seven chapters had been established and over a thousand members had been initiated into the Society.

Chapter	Location	Year Founded
Alpha	Rensselaer Polytechnic Institute	1945
Beta	Virginia Polytechnic Institute	1947
Gamma	Purdue University	1947
Delta	University of Illinois	1948
Epsilon	University of Alabama	1948
Zeta	Iowa State University	1949
Eta	Massachusetts Institute of Technology	1949

Although Tau Omega and Gamma Alpha Rho were both honor organizations in aeronautical engineering, neither recognized the other publicly. Only once in the years between 1945 and 1950, did they correspond, even though Gamma Alpha Rho became national in 1948. In 1946 the secretaries of the two organizations wrote each other, stating their aims and method of organization. But changes in officers in both groups, in 1949 and 1950, brought about an interest in learning more of each other's activities. The Tau Omega National Convention in the spring of 1949 was held at Illinois Institute of Technology in Chicago, Illinois. At that convention, the following officers were elected: Dr. Harold V. Hawkins from the

## HISTORY . . . .

Illinois Institute of Technology-President, Professor L. A. Comp from the University of Oklahoma-Vice President, and Professor Fred Mouch from the University of Oklahoma was re-elected Sec.-Treas. On February 10, 1950, Harold Hawkins, National President of Tau Omega, wrote to Henry Burlage, Jr., National Sec-Treas. of Gamma Alpha Rho, expressing a desire to learn of their organizations and purpose. Dr. Hawkins suggested that if the two organizations were similar in purpose, one strong organization would be able to serve the aircraft industry better than two. Mr. Burlage wrote back in agreement, suggesting that a meeting be held between the two groups, in order to clarify each other's objectives. In conventions following, the two organizations' objectives were discussed and compared. At a Gamma Alpha Rho National Convention, September 29 and 30 of 1950, the following officers were elected: Robert F. Robinson from Purdue University-President, J. L. Potter of the Naval Ordnance Laboratory in White Oak, Maryland-Vice President, and Henry Burlage, Jr., then from Rensselaer Polytechnic Institute was re-elected Sec-Treas. After this convention, many plans for expansion and ideas for joining Tau Omega were dealt with. Both organizations were at the time having their constitutions revised and reprinted. This delayed the meeting of the two groups. Also officers of both groups were busy with their duties at their respective universities and difference in location made it difficult to arrange a meeting until the 22nd of September, 1951. At this meeting between President Hawkins and Vice President Comp of Tau Omega and President Robinson and Sec-Treas. Burlage of Gamma Alpha Rho, several points were discussed and agreed upon.

This first informal meeting resulted in the formation of definite plans for merging the two groups. Some important points agreed upon were: (1) The new organization would be known as and have its title written as a "Society." (2) There would be one grade of membership. (3) The constitution of the new society would be a combination of the constitutions of Tau Omega and Gamma Alpha Rho.

The same four officers met again on March 29, 1952. Much was accomplished toward resolving problems and organizing the laws by which the new society would abide. The officers prepared preliminary Articles of Federation and Constitution. It was then decided that a joint convention of both parent organizations be held to discuss and vote on the following items: (1) Constitution (2) Ritual (3) Name (4) Insignia (5) National Offices to be required of new chapters (6) Whether or not to approve merger if details were satisfactory.

## HISTORY . . . .

The joint convention was held at Purdue University on February 28, 1953, and the society established was called Sigma Gamma Tau. It was known as a National Honorary Aeronautical Engineering Society. Sigma signified the sum of the two parent society's names, indicated by Gamma and Tau. It was incorporated under the laws of the State of Oklahoma on March 24, 1953. Fourteen chapters (seven from each society) became recognized member chapters of the new society. Chapters were named after their respective schools. All persons who were previously members of either organization became recognized as members of the new society. Each parent society had approximately 1000 initiated members. National officers elected were: L. A. Comp from the University of Oklahoma-President, Henry Burlage, Jr., from Case Institute of Technology-First Vice-President, Melvin H. Synder, Jr., from the University of Wichita-Second Vice-President, Harry H. Hilton from the University of Illinois-Sec-Treas.

The purpose of Sigma Gamma Tau was summarized in the preamble of the Society's National Constitution, which states: "The Sigma Gamma Tau Society is established to recognize and honor those individuals in the field of aeronautics who have through scholarship, integrity, and outstanding achievement been a credit to their profession. The Society seeks to foster a higher standard of ethics and professional practices and to create a spirit of loyalty and fellowship, particularly among students of aerospace engineering."

In the three years following the merger, three issues of the National Publication, "Contact" were published. During these years West Virginia University joined Sigma Gamma Tau on December 11, 1954, and Polytechnic Institute of Brooklyn became a member on December 15, 1955. In that year, H. S. Stillwell, from the University of Illinois was elected National President and John J. Harper, from Georgia Institute of Technology was elected National 2nd Vice-President. The second National Convention was held at Ohio State University on May 5, 1956.

No convention was held between 1956 and 1964 because of lack of society business. During these years, the following chapters joined the society:

	Year
Texas A & M University	1957
New York University	1957
Pennsylvania State University	1957
University of Texas	1957



## HISTORY . . . .

The University of Alabama Chapter, which had been inactive was reactivated May 18, 1960. The following National officers were elected in 1956: Dr. L. Z. Seltzer, Dean from St. Louis University-President, Professor M. R. Millett, Jr., from Iowa State University-First Vice-President, W. K. Rey from the University of Alabama-Second Vice-President, Harry H. Hilton, from the University of Illinois was re-elected Sec-Treas.

The third National Convention was held at West Virginia University on February 22, 1964. Dr. L. Z. Seltzer from St. Louis University was re-elected President, Professor B. H. Ulrich, Jr., from West Virginia University was elected Vice-President, and Professor Ammon S. Andes from the University of Kansas was recommended and appointed Executive Sec-Treas. At this convention, Carnegie Institute of Technology was declared inactive. Professor H. H. Hilton sent to Andes \$11,046.03 cash plus accounts, \$530.58 since received as income.

On February 27, 1965, the society became a member of the Association of College Honor Societies at their convention in Chicago, Illinois. Application to the Association was made by Dr. Seltzer and Professor Ulrich. Dr. Seltzer and Professor Andes represented Sigma Gamma Tau at the convention. An officer or the Executive Secretary will represent Sigma Gamma Tau at their annual council meeting (Prof. Andes for last 3 years) to consider problems of mutual interest with other honor societies.

Sigma Gamma Tau is now known as a National Honor Society in Aerospace Engineering, according to a chapter vote, and the next publication is to be "Mach 66." University of Kansas students prepared the "1965 Contact."

On November 11, 1965, Virginia Polytechnic Institute initiated their alumnus, Christopher C. Kraft, director of the Gemini Space Flight Program for the National Aeronautics and Space Administration, who received their Distinguished Alumnus Award "in recognition for his achievements in the nation's space program."

On December 3, 1965, a new chapter was installed at Auburn University by Vice-President B. H. Ulrich, from planning by Professor Johnny Burkhalter, their new faculty advisor.

In May 1966, a new chapter was installed at the University of Maryland by Vice-President B. H. Ulrich, from planning by Dr. Walter L. Melnik, their new faculty advisor.

On December 20, 1966, New York University reactivated its chapter, with President L. Z. Seltzer officiating with Professor V. Zakkay as its faculty advisor.

## HISTORY . . . .

February 11, 1967, TRIENNIAL CONVENTION AT UNIVERSITY OF ILLINOIS ... Convened from 8 a.m. to 4 p.m. with President L. Z. Seltzer (re-elected) presiding (for complete minutes see Mach '67 publication). Present were Vice-President B. H. Ulrich (retiring), Vice-President Elect R. M. Nerem (Ohio State), and Executive Sec-Treas. A. S. Andes (Kansas) reappointed. Delegates answered roll call representing chapters from: Alabama U., Auburn U., Brooklyn Poly., Georgia Tech., Illinois U., Kansas U., Maryland, M.I.T., Minnesota U., New York U., Ohio State, Oklahoma U., Penn. State, Purdue U., Rensselaer, Texas A & M, Texas U., Virginia Poly., and W. Virginia U. No delegates attended from Wichita U. or Iowa State. Others attending were four from W. Virginia and Professor McCormick from Penn. State. Phillip Lynch of W. Va. U. was elected convention secretary. R. Golf of V.P.I., Fred Bray of Oklahoma, and Dean Bristow of Purdue were appointed as resolution committee by President Seltzer. He then gave a report for the Executive Council (pg. 5 of Mach '66-'67), and expressed the hope that Sigma Gamma Tau could become an organization to represent aerospace engineers as a group since AIAA has become an interdisciplinary organization.

Executive Sec-Treas. Andes reported on (a) necessity of chapters reporting promptly, (b) sending membership cards signed by Faculty Advisor, (c) having order forms signed by Executive Secretary Treasurer, gave the treasurer's report which is summarized on page 9 of "Mach '66-'67," and answered specific questions about the budget and state of the organization's investments.

After discussion and motions, the following were approved:

1. That an independent audit be made of the account within six weeks and that a report be made to the chapters.
2. that the honorarium of the Executive Sec-Treas. be increased from \$600 to \$700 per annum as a token of appreciation for a job well done.
3. that the National Society's portion of each new member's initial fee remain at \$10 plus \$1 to reserve fund until \$100 for Chapter.
4. that means of penalizing chapters absent from the convention be \$25 subtracted from their reserve fund.
5. that the convention approve the current method of investing the organization's funds (Savings and Loan Bonds).
6. that all chapters be required to submit complete copies of their By-Laws to the National Office within six mo.
7. that we recommend that chapters decide which key they will require their new members to buy for identification.

## HISTORY . . . .

8. that use of Sigma Gamma Tau funds (interest) for awards be: (A) \$600/yr.; (B) \$100 each to 6; (C) for junior or senior members; (D) awarded only once to a person; (E) chosen by National Committee (V. Pres. Nerem, B. W. McCormick, R. E. Walters); (F) nominated by chapters for each; (G) guided by the following criteria:
  - (1) cumulative grade average in all courses,
  - (2) extra curricular activities of all kinds,
  - (3) career plans or goals,
  - (4) any chapter absent from the convention not be eligible to compete for the award in the year following the convention.
9. that a seal incorporating the key of Sigma Gamma Tau in a circular frame be adopted and a coat of arms be considered later.
10. no action taken on "obtaining a mold for a large metallic casting of the key." (Mr. Bristow urged all chapters interested to contact him at Purdue).
11. that a per diem delegate allowance (for 1967 convention) be set at: \$20 for one day and an additional \$10 for those who must stay two days. (Committee: C. Reed of Purdue, R. E. Walters and F. D. Wilkins of West Virginia.)

### THE RESOLUTIONS APPROVED are as follows:

- I Thanking the University of Illinois for the hospitality and excellent facilities provided for the 1967 National Convention.
- II Thanking the National Executive Committee of Sigma Gamma Tau for outstanding service.
- III Recognizing the achievement of Astronaut Roger Chaffee as an outstanding fellow member of Sigma Gamma Tau who lost his life in the furtherment of knowledge of the aerospace sciences and exemplified the highest ideals of this honor society through service to his country.

President Seltzer closed the meeting by indicating that all member institutions desiring to host the 1970 National Convention would be considered, and delegates from Ohio State, Penn. State, and the University of Oklahoma extended tentative invitations.

The Natl. Office published 1000 copies of "Mach '66-67" in January 1967.

Natl. Exec. Sec-Treas. Andes has attended the Annual Council Meeting of ACHS from Feb. 1965 to Feb. 1968.

The Natl. Office published 1000 copies of "Mach '68" in Apr. '68. Supplies of this ran out in less than a year.

On Dec. 3, '68, a new chapter was installed at the U. of Cinn. by V-Pres. Nerem from planning with Dr. Ralph Dale, their new faculty advisor.

## HISTORY . . . .

### SUMMARY OF TRIENNIAL CONVENTION April 4, 1970 at St. Louis

1. Presiding - L. Z. Seltzer, Natl. Pres., Assisted by V-Pres. Elect F. R. DeJarnette and A. S. Andes, Exec. Sec-Treas.
2. Convention Secretary James H. Clutter, Jr. (West Virginia U.)
3. Delegates: Alabama, D. Deramus; Auburn, W. Barton; BPI, J. Lubenstein; Cincinnati, H. Hinds; Georgia Tech, B. Ketts; Illinois, K. Huling; Iowa St., S. Schwitters; Kansas, J. Burke; Maryland, J. Poole III; Minnesota, H. Hogna; New York, I. Ortiz; Ohio St., T. Benson; Penn. St., G. Scheffler; Rensselaer, M. Goldhammer; Texas, K. Griffin; Texas A & M, B. Rao; Virginia, C. Jones; VPI, R. Blohm III; W. Virginia, J. Clutter, Jr.
4. Others Attending: VPI, V-Pres. Elect F. R. DeJarnette; Penn State, B. McCormick, R. Nagel; W. Va., R. Walters, J. Jester, D. Myer, R. Tabit; Kansas, R. Russell.
5. Roll call at 9 AM. Mach '70 distributed contained Pres. and Sec-Treas. reports. Letter from Pres. Elect R. M. Nerem recommended increase in the amount of Honor Undergraduate Awards to stimulate interest. Convention discussed then voted to maintain the amount at \$100 each but increase the number from 6 to 8.
6. After discussion, voted (11-4) to impose a penalty on absent chapters by deducting \$25 from their reserve fund and that they be ineligible for the 1971 Honor Award. New member dues to Natl. Society kept at \$10 by unanimous vote. Voted 16-3 that Natl. Dues be deferred in hardship cases until such time as the initiates can pay (not for keys).
7. To recognize that ECPD approves curriculum and not colleges or Universities, the following amendment to the constitution of Sigma Gamma Tau was approved for submission to the chapters, "Article III, Section 1. QUALIFICATION FOR A CHAPTER. Chapters may be established in any Engineers' Council for Professional Development (ECPD) approved engineering college or university whose aero Engineering curriculum meets the requirements established in this constitution. A petition to establish a new chapter in such a school, may be presented to the Executive Council by five students who would be qualified for membership under Article V.
8. The per diem allowance for each chapter approved as follows:
  - a) Round trip air coach fare;
  - b) St. Louis Motel accommodation-room charges only (1 or 2 nights as appropriate);
  - c) \$15 for meals and incidentals (lunch was furnished for delegates).

## HISTORY . . . .

9. Prof. B. W. McCormick of Penn State and Dr. B. M. Rao of Texas A & M invited 1973 convention. President indicated that all chapters desiring to host convention would be considered.
10. Resolutions adopted: 1. to cite a) Pres. L. Seltzer for his efforts in organizing the 1970 Convention, and his many years (10) of leadership which resulted in increase of new chapters. b) V-Pres. Nerem, for organizing and administrating the evaluations of the Natl. Honor Undergraduate Student Awards, and his work in installing new chapters. c) Sec-Treas. Andes for his excellent service in managing the financial affairs of Sigma Gamma Tau, and in preparing the publications of the Society.
11. We posthumously recognize the achievements of both Mr. William T. Piper, an honor member of Sigma Gamma Tau, for his long history of useful contributions in the fields of commercial and private aviation; and Dr. Ralph Dale, who contributed to the organization and installation of the University of Cincinnati chapter.

The meeting was adjourned at 4 PM.

The MACH '70, '71, '72 published 1000 to 1500 copies each, none in 1969 (Exec. Sec-Treas. Andes toured round world and volunteer chapter failed to publish). Because of lower income and other considerations, Natl. Officers and 1973 Convention decided Mach Publication should be replaced by Regional and National Newsletters.

SEVEN NEW CHAPTERS approved and installed as follows:  
University of Virginia, February 6, 1970, by V-Pres. Nerem.  
North Carolina State, May 15, 1970, by V-Pres. DeJarnette.  
Univ. of Tex--Arlington, May 18, 1970, by Pres. Nerem.  
Mississippi State Univ., April 7, 1971, by V-Pres. DeJarnette.  
Univ. of Missouri--Rolla, February 12, 1974, by Pres. Nerem.  
Northrup Inst. of Tech., May 1974, by Pres. Nerem.  
University of Colorado, Approved May 15, 1974.

Sec-Treas. Andes attended ACHS Conventions 1970 thru 1974 as delegate and member of "Committee on Standards and Definitions."

Sigma Gamma Tau "Articles of Incorporation" state specifically that Sigma Gamma Tau operates under U.S. Federal Regulations for Tax Exemption Classification 501(c)3. To June 1974 Pres. Nerem has secured \$100 each from 3 corporate benefactors: 1) Sunstrand Aviation, 2) L.T.V. Aerospace Corporation, and 3) United Aircraft.

## HISTORY . . . .

March 31, 1973, TRIENNIAL CONVENTION at U. Texas-Arlington.

1. Presiding - Natl. Pres. R. M. Nerem, V-Pres. F. R. DeJarnette, assisted by Exec. Sec-Treas. A. S. Andes.
2. Convention Secretary - Kent D. Schreyer (U. Tex.-Arlington).
3. Delegates: Auburn, N. Speakman; Brooklyn Poly., M. Dunican; Cincinnati, B. Priest; Georgia Tech., D. Plunkett; Iowa St., R. Szyblowski; Kansas, B. Goldiez; Maryland, D. Goldstein; MIT, J. Boetje; Minnesota, D. Storsved; Mississippi St., K. Koenig; N. Carolina St., D. Yohman; Ohio St., M. Dulp; Oklahoma, Dr. L. Leonard; Penn St., D. Weir; Purdue, R. Jamrogiewicz; Texas A&M, D. Cooke; U. of Tex.-Arlington, G. Morris; U. of Tex.-Austin, J. Miller; Va. Tech., B. Papadales, Jr.; W. Va., J. Stolze; Wichita St., J. Brady.
4. Others Attending: UT Arlington, Dr. F. Payne; Collins Radio, A. Middlebrook; Texas A&M, L. Carlson, S. Lowy, E. Mayerle; UT Arlington, M. Eaton, L. Stephens, R. Squyers, D. Bruno, K. Schreyer, V. Caruth, B. Williams, P. Chow, J. Roberts, K. Armand.
5. Refreshments and social hour Friday evening before.
6. Minutes of Meeting 9:00 AM to 5:25 PM (time out for pizza lunch).
7. Roll Call of 26 chapters--Absent Chapters: Alabama, Illinois, U. of N.Y., Rensselaer, and U. of Va. (last 3 not active).
8. Secretary reported difficulty in getting chapter reports (see book of Constitution) passed out ditto copies of Mach-et '73 with Sec.-Treas. reports. Reserve fund \$17,000.00 in bonds (note, \$936.46 plus some local expenses raised by U. of Tex.-Arlington for meeting expenses) 262 student and 11 faculty members last year.
9. V-Pres. DeJarnette explained work on Honor Awards and relation with student chapters.
10. Pres. Nerem reported visiting chapters during business trips and of arranging regional meetings at S. Eastern Amer. Inst. Aero. and Astro. and at U. Tex.-Arlington.
11. Discussion considered Sigma Gamma Tau merging with AIAA (which had also been discussed at special meeting of officers and members at previous AIAA meeting, etc.) not approved.
12. Texas A&M chapter studied and reported on feasibility of regional meetings. Committee on regional organization appointed by Pres. Nerem; Doug Storsved, Minn U., (chairman); Dr. L. Leonard, Okla.; Michael Dunican, Brooklyn Poly; and Daniel Goldstein, Maryland.
13. Voted to publish National and Regional Newsletters instead of Mach '-- publication (following discussion). Voted to keep Honor Awards as follows:  
Eligibility - undergraduate member, initiate member, pledge, or active member.  
Regional Award - one \$100 award to the outstanding student in each region.

HISTORY . . . .

Outstanding Student Award - a \$100 award and a plaque to the student selected as the most outstanding student of all the regional winners.

Required Essay - to read: "Attach a 300-1000 word essay describing some outstanding experience(s) outside of normal classroom routine. For example: a technical research project, co-op research experience, major community service efforts, abstracts of published papers, etc."

Entry forms should be sent out to the chapters by Nov. 15.

14. Proposed amendments to Constitution (approved Fall 1973) included Article II, Government of Society and Outstanding Sophomore members, and Regions=
  - Southern-Alabama, Auburn, Georgia Tech, Mississippi State, North Carolina State, Virginia Polytechnic Institute.
  - Western-Kansas, Oklahoma, University of Texas, University of Texas at Arlington, Texas A & M, Wichita State.
  - Midwestern-Cincinnati, Illinois, Iowa State, Minnesota, Ohio State, Purdue.
  - Eastern-Brooklyn Polytechnic, Maryland, MIT, New York U., Penn State, Virginia, W. Virginia, Rensselaer.
15. Voted dues to National treasury kept at \$10 after chapters paid \$100 to reserve.
16. Voted Treasurer Andes give himself \$900 Honorarium for 1972-1973 and subsequent Honorarium to Exec. Sec-Treas. be not to exceed \$900 (note this has been partly used for typists, etc. for 1972 to 1974 to keep working fund in treasury -- see Treasurer's Reports.)
17. Securing new chapters was discussed (see 3 new in 1974).
18. Declared elected for 3 years: Dr. Fred R. DeJarnette as Natl. V-Pres., Prof. Ammon S. Andes reappointed Exec. Sec-Treas., runoff ballot decision necessary for President (between Dr. R. Nerem and Dr. Miller of Iowa State) with Dr. Nerem reelected May 1973 for a 3 year term as Natl. Pres.

Summary of TRIENNIAL CONVENTION  
Sheraton Park Hotel, (at AIAA Meeting)  
January 27, 1976  
Washington, D. C.

- (1) President Robert M. Nerem called the meeting to order with roll call of delegates by regions (C = coordinator, S = student, - = chapter, school): (1) East (C) Dr. Winfred M. Phillips - Penn State, (S) Michael Lechnar - W. Va.; (2) Southeast (C) Vice President Fred R. DeJarnette - N. C. State, (S) Dave McCurdy; (3) Great Lakes (C) Dr. Blaine R. Butler - Purdue, (S) Michael Micci - Univ. of Illinois; (4) N. Central (C) Dr. Robert B. Oetting - Univ. of Mo.-Rolla, (S) John McGowan - Univ. of Kansas; (5) Southwest (C) Dr. Leland A. Carlson - Texas A&M, (S) Eddie Gorgas - Univ. of Texas-Austin. All present.

HISTORY . . . .

- (2) Others attending: Dr. David G. Hull, Faculty Advisor - Univ. of Texas-Austin, Prof. Ammon S. Andes, Executive Secretary-Treasurer.
- (3) Selection of Convention Secretary - John McGowan - Univ. of Kansas.
- (4) Selection of Expense Reimbursement Committee - Dr. Carlson, David McCurdy, Michael Lechnar (report at 1:30 p.m.).
- (5) Report by Dr. R. M. Nerem (National President, six years). Stability of Sigma Gamma Tau, chapters added - 3, inactive - 3, active - 25. Regional system started to get scattered chapters together for stimulation and discussion. Now meet at AIAA Regional Paper Competition. This has also reduced cost of National Convention this year, less delegates (see cost statement after Secretary's report).
- (6) Report by Executive Secretary-Treasurer Ammon S. Andes. Answered questions: (1) For student and special member eligibility - see Constitution, Article V. (2) About 8277 total members, starting with former published statement that there were about 5000 members in Fall 1964, including members of two founding societies (1931-1953). (3) Card records on these are very incomplete. Approved as corrected, to be audited before given to new Secretary-Treasurer. Secretary's report attached.
- (7) Report on 19 votes of new national officers shown on secretary's report. Convention decided because of confusion on first ballot (new ballot added 3 names) to count vote until February 1, per constitution, then if no majority to revote due March 1. (Feb. 4 showed 12 of 22 votes electing Dr. Blaine R. Butler as National Vice President until 1979; revote needed for President).
- (8) Report on Honor Awards by Dr. DeJarnette, Vice President and Committee Chairman. Under regional organization since 1973, best chapter nominee in each region given \$100.00 Honor Award, extra \$100.00 to "Most Outstanding Student" in 5 regions chosen for National Honor Award. Nomination date extended to March 15, 1976, to give chapters needed time. President Nerem suggested "Chapter Nomination is an honor in itself." Motion passed concerning required essay or paper, that "nominees write a one or two page letter stating their career goals and how they hope to put their aerospace education to use," (secretaries suggest "...how they hope to utilize their aerospace education."). Publicity will be sought in AIAA and other publications (Student Journal / Ray Gorski etc.). Coordinators found "Industry not currently willing to support education activities. President Nerem secured three \$100.00 contributions from "corporate benefactors" for one year only.



HISTORY . . . .

- ( 9) Regional Organization and Cooperation with AIAA. Difficulty publishing regional newsletter (best to use one page). Regions will conform as much as possible with AIAA. Meetings should be planned at AIAA Student Paper Competition. Department chairmen urged to write letters encouraging nominees to join Sigma Gamma Tau. Discussion revealed disapproval of formal merger with AIAA (would cause loss of identity, AIAA not strictly Aerospace, etc.) but should cooperate with AIAA in areas of mutual interest.
- (10) Reimbursement Committee recommended for delegates and officers: (1) airline coach fare or equivalent costs, (2) hotel, (3) local travel up to \$12.00, (4) meals up to \$13.00. Total convention costs for 12 tickets, etc. - \$1781.84, local bus - \$92.15, hotel - \$369.71, meals - \$139.00, total - \$2384.95. (Totals by regions: 1. \$234.37, 2. \$308.75, 3. \$391.25, 4. \$463.11, 5. \$590.59, two officers - \$396.73 + 15¢ check to ticket agency. (See delegate list for names and numbers).
- (11) National Dues. Since 1953, \$10.00 (plus \$1.00 to reserve fund until chapters contribute \$100.00). Chapter fee and key requirements vary. Moved to "increase national dues to \$12.00 effective for new members after July 1, 1976." Does not change \$1.00 reserve.
- (12) Attraction of new chapters best through regional coordinators or other contacts. One requirement is an available chapter advisor (good contact). Suggest contacting Ray Gorski for publicity in AIAA, in connection with announcement of Honor Awards.
- (13) Chapter reports and correspondence to be c/o faculty advisor. Regional coordinators can help get response. Semiannual report still desirable.
- (14) Representative to Association of College Honor Societies (ACHS). Decided to register for annual meeting. Suggest regional coordinator nearest the meeting attend. This year it will be Dr. Blaine R. Butler, who is also the new Vice President.
- (15) Ordering. Should use new forms per secretary's report.
- (16) Regional expense of \$125.00 maximum when necessary, discussed and approved.
- (17) Inactive chapters are to be "temporarily inactive" and can become active when advisor and eligible students are available.
- (18) Professor Andes is retiring in May but agreed to extend in his capacity as Secretary-Treasurer until the end of the academic year to aid the new Secretary-Treasurer in his transition.

HISTORY . . . .

- (19) Motion by M. Lechner that "Andes receive a \$900.00 honorarium this year (Andes has refused this same honorarium for the past two years) and that recognition for his services be made in the form of a plaque inscribed at the discretion of the national officers" - seconded by J. McGowan. J. McGowan moved to amend motion "that the national honor student award be re-named the Ammon S. Andes National Honor Undergraduate Award to further honor Professor Andes" - seconded by M. Lechner.
- (20) Motion by Andes that "certificates of service be presented to all past Presidents and Vice Presidents for their services rendered and that future regional coordinators similarly be recognized. In addition these certificate forms will be provided on request to a chapter if it so desires to honor their Sigma Gamma Tau faculty advisor" - motion was seconded and passed.
- (21) Convention was closed at 3:15 p.m.

From tape recording by John McGowan, Convention Secretary, and notes taken by Professor Ammon S. Andes, Executive Secretary-Treasurer.

Summary of TRIENNIAL CONVENTION  
April 6, 1979  
New Orleans, Louisiana

- 1. President Fred R. DeJarnette called the meeting to order at 9:00 a.m. and made opening remarks.
- 2. Attendees:  
Fred R. DeJarnette, President  
Blaine R. Butler, Vice President and President Elect  
Eleanor Bridgers, Executive Secretary-Treasurer  
Malcolm A. Cutchins, Vice-President Elect

<u>Region</u>	<u>Coordinator</u>
Eastern	Winfred M. Phillips (Penn State)
Great Lakes	Blaine R. Butler (Purdue)
North Central	
Southeastern	Fred R. DeJarnette (N. C. State)
Southwestern	

  

<u>Student Representative</u>
Mike Foti (Penn State)
Andy Dimitriou (Purdue)
Richard McFall (Univ. of Missouri-Rolla)
Sam Patellos (Ga. Tech.)
Mike Watts (Texas A&M Univ.)

- 3. President DeJarnette gave the results of the recent election of officers as follows: President - Blaine R. Butler, Purdue University and Vice-President - Malcolm A. Cutchins, Auburn University.

## HISTORY . . . .

4. Report on Honor Awards by Vice President Butler. The Southwestern Region had three outstanding nominations for Honor Awards for 1979. It was decided that Daniel R. Neil (University of Texas at Austin) and Robert H. Bishop (Texas A&M University) be declared tie winners for the Southwestern Region and that Stanley K. Albrecht (Northrop University) would be the winner for the Western Region (new region to be formed). A motion was made by Professor Butler to add \$100 for awards this year in order to give a \$50 honorarium to the tie winners - motion was seconded and passed. It was discussed that publicity be sought regarding the Honor Awards with AIAA (Student Journal). It was agreed to have Regional Coordinators seek outside support from industry to help support honor awards.
5. Copies of Treasurer's Report was given to the attendees by the Secretary-Treasurer (copy attached). Suggested by Professor Phillips that the Society put the \$10,000 bond in a six-month money market savings. This will be handled by Eleanor Bridgers.
6. All participants agreed that membership fees remain at \$12.00 per member and \$13.00 per member for the chapters that have not paid in all their reserve fund. It was discussed and suggested that in the future "members-in-the-field" be charged the membership fee except for outstanding and nationally prominent individuals.
7. Some chapters indicated they have received Federal Income Tax Forms this year. Professor Butler suggested that if chapters received these forms, to check with your University's Student Organizations Office first. If they need further help to answer questions, contact the National Office.
8. Motion was made by Professor Phillips to maintain the same format for the pamphlet which contains the Constitution - seconded and passed. Professor Phillips suggested that a revision be made for the seal which appears on the front cover. Revisions will be made shortly to reflect any changes in the pamphlet and will be handled by the current National Office. Participants agreed that the same procedure be followed in providing a copy for all new members initiated.
9. Student Representatives expressed an interest in seeing their Chapters become more active. Items were discussed such as project competition between Chapters. Newsletters to exchange ideas between Chapters and input at their University such as curriculum revision and selection of courses taught.

## HISTORY . . . .

10. Professor Phillips suggested that the names of Regional Coordinators be printed on the stationery letterhead along with the names of officers. This will be handled by the new officers.
11. Regional Coordinator Robert Oetting (unable to attend) asked the Student Representative from his region to ask the Executive Committee to reconsider having the Triennial Convention in conjunction with AIAA. The new officers made note of this request.
12. It was suggested by Student Representatives and agreed by Coordinators and Officers that for the next Triennial Convention that students, officers, and coordinators have an "informal get together" the evening prior to meeting.
13. President DeJarnette reported that Parks College, University of Southern California and California State Polytechnic University, Pomona have expressed an interest in establishing a Chapter. The California State Polytechnic University, Pomona has petitioned for the Executive Committee to become a new Chapter and is presently being voted on for membership.
14. Officers, Coordinators, and students agreed on travel reimbursements as follows: Air fare (tourist class), \$16.00 for local travel - (residence to and from airport and airport to and from hotel), \$20.00 per day for meals, and \$.15 per mile (if personal auto was used).
15. Vice President Butler suggested that a Western Region be formed. Since one school on the West Coast has a chapter now and two are seeking a charter, a Western Region would be formed when there are at least three chapters in that region.

Convention adjourned at 2:50 p.m.

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One new chapter approved and installed as follows:

California State Polytechnic University, Pomona, Approved  
May 25, 1979, by Professor Paul Lord.

## CONSTITUTION

### PREAMBLE

The Sigma Gamma Tau Society is established to recognize and honor those individuals in the field of aeronautics who have through scholarship, integrity, and outstanding achievement been a credit to their profession. The Society seeks to foster a high standard of ethics and professional practices and to create a spirit of loyalty and fellowship, particularly among students of Aerospace Engineering.

### ARTICLE I ORGANIZATION

Section 1. The membership of the Society will be individuals who have been accepted into the Society according to the provisions of this Constitution. These members may be joined together in chapters or clubs as provided.

Section 2. The name of the Society will be Sigma Gamma Tau.

Section 3. The symbol of the Society will have the form presented in Appendix A of this Constitution. The symbols of the Society may be worn and used as a Society symbol only by members.

Section 4. The certificate of membership will have the form represented in Appendix B of this Constitution.

Section 5. The seal of the Society will be of the form represented in Appendix C of this Constitution.

Section 6. The colors of the Society will be red and white.

Section 7. Chapters will be named after their respective schools.

Section 8. Clubs will be named after the cities in which they are organized.

### ARTICLE II GOVERNMENT OF THE SOCIETY

#### Section 1. Structure

The chapters of the Society shall be assigned to a Region by the National Convention. If a chapter is chartered between Conventions, it shall be assigned to a Region by the President of the Society.

#### Section 2. Administration, the National Convention

a. The Society will be governed by the National Convention of the Society. The active chapters will elect national officers who will act as an Executive Council carrying out the directives of the Convention and the Constitution during the interim between Conventions.

b. There will be a National Convention at least every three years, but no more frequently than every two years, and the time and location of the next Convention will be proposed at each Convention. If it is not possible to hold the next Convention at the time and place proposed at the last Convention, the Executive Council will establish a new time and/or

## CONSTITUTION . . . . Article II . . . .

place. The National Secretary-Treasurer will then notify all chapters of this new time and/or place and the reason for the change. The Executive Council, or a chapter, may initiate a request for a special Convention. All chapters will be notified of such action, and they will be responsible for returning the ballot on whether or not the Convention will be held. If the ballot is not returned within one month, the vote will be counted affirmative. If the majority of the chapters approve, the Executive Council will call the Convention as soon as possible and will designate time and place.

c. At the National Convention each Region will be represented by a Regional Coordinator and a Regional Chairman, each with one vote. Any member of the Society may attend the Convention and may participate in the business of the Convention to the extent permitted by the Convention, but will have no vote.

d. The Convention will establish the necessary rules that are required for the operation of the Convention and the Society. Roberts "Rules of Order, Revised" will rule in all cases not specifically designated as needing establishment of Convention rules.

e. The Convention will establish that part of the initial fee\* to be transmitted by the Chapter to the National Society. The fee includes the cost of the membership certificate, Constitution, and operating and publishing expenses of the Society.

f. The expenses of the official delegates to the Convention will be paid from the National funds to the extent of one round trip air coach fare plus personal expenses of the delegate per diem to be determined at the Convention.

g. The expenses, including travel, meals, and lodging, of the National President, Vice-President, Executive Secretary-Treasurer Elect, will be paid for from the National funds.

h. The compensation of the Executive Secretary-Treasurer will be fixed by a vote of the Convention.

i. The Convention will act as the Supreme Court on all questions of interpretation of the Constitution and on reinstatement of suspended chapters and other disciplinary matters.

#### Section 3. Government of the National Convention

a. The National President will open the Convention and will preside.

\* March 1976 National Convention set initiation fee (to Natl. Treas) as \$12 plus \$1 per member for Reserve Fund until the chapter has contributed \$100.

CONSTITUTION . . . . ARTICLE II . . . .

- b. The Convention will elect its own secretary.
- c. A quorum will be the delegates from a majority of the Regions.
- d. Proxy votes will not be accepted at a Convention.
- e. The order of business at the National Convention will be: 1) Call to Order; 2) Roll Call of Delegates; 3) Election of a Convention Secretary; 4) Adoption of Agenda; 5) Executive Council Reports; 6) Committee Reports; 7) Old Business; 8) New Business; 9) Consideration of Next Convention; 10) Announcement of New Officers; 11) Adjournment.

Section 4. Administration, the National Officers

- a. The Executive Council will have the authority to take appropriate action with the spirit of the Constitution and Convention directives. It has the power to declare a chapter inactive, or to reactivate it, depending on the chapter's ability to conduct its business.
- b. The elected National Officers will be the President and Vice-President, composing the Executive Council. The Executive Secretary-Treasurer and the Regional Coordinators will be appointed by the Executive Council, who will take into account any recommendations made by the chapters. The selection of Regional Coordinator is subject to the majority vote of the chapters within that Region. In case of a tie, the Executive Secretary-Treasurer or the Regional Coordinator will be elected by a majority of chapter votes. The Executive Council will make the appointments at a Convention, or May 31, whichever is earlier. The Executive Secretary-Treasurer and the Regional Coordinators will assume their duties no later than September 1 in the year of his appointment. All terms of office shall be for three years, and will end at the close of a Convention, or September 1, whichever is earlier.
- c. The National President will preside at any meeting of the National Officers and at Conventions.
- d. The National Vice-President will preside in the absence of the National President and will be responsible for the expansion of the Society.
- e. The National Executive Secretary-Treasurer will have custody of the book records, monies, seal, Constitution, and other properties of the Society. He will manage the National Publication of the Society, will administer the nomination and the election procedure for National offices, and will be historian of the Society. Official correspondence of the Society must be addressed through this officer. He will collect and keep records of any assessments made on or by the Society. The symbols of membership and any official materials will be obtained from the Executive Secretary-Treasurer. He will submit a detailed annual report of his

CONSTITUTION . . . . ARTICLE II . . . .

activities to the Executive Council, including a detailed financial report. The report will be published in the National Publication annually. All chapters must conduct their financial business with the Executive Secretary-Treasurer between September 1 and April 30. Proper order blanks or forms must be used where such blanks are provided.

f. The Regional Coordinators shall act as liaison between the National and Regional Organization and each shall advise his Regional organization.

- g. The Executive Council may submit to chapters for letter ballot any issue which it deems necessary in the interval between Conventions.
- h. Expenses, including travel, meals and lodging, attendant to emergency meetings of the Executive Council will be defrayed by the National Society.

Section 5. Election of National Officers

- a. The National Officers for the initial periods shall be elected by the first National Convention.
- b. The Executive Secretary-Treasurer will advise the chapters and clubs by October 1 every third year, using a form including the rules for the balloting prescribed by the Executive Council, that they must provide potential nominees, by November 1, for the two offices terminating that year. The nomination must be accompanied by a letter from the nominee indicating that he would serve if elected and any campaign material, subject to limitation of length as specified in the balloting rules, from the chapter supporting the nominee. This material will then be published in the National Publication by January 1. Ballots will be sent to the chapters and clubs at the time the National Publication is published, and the preliminary ballot will be due February 1. Each chapter will vote for the two offices with a first, second and third choice. The Executive Secretary-Treasurer will then compile the final ballot including only those candidates receiving the two highest votes, and submit it to the chapters by February 15. The final ballot will be due March 1. The chapters will be notified of the results by March 15. A plurality vote will constitute election. The new officers may then attend the National Convention in October or whenever it is held (to be determined by the Executive Council).

Section 6. Regional Administration

- a. Each Region shall be administered by a Regional Chairman, who shall be elected from the active membership at the autumn Regional Meeting by a majority of the chapters within that Region from nominations sent to the Regional Coordinator. The Regional Chairman shall preside at that meeting and shall be responsible for the Regional Publication and Regional Meetings until the election of his successor.



CONSTITUTION . . . . ARTICLE III.

b. The purpose of the Regional Meeting shall be to:  
1) carry out the purposes of the Society; 2) conduct Regional business; 3) allow for discussion between chapters.

c. There shall be at least one Regional Meeting per year. All active members within that Region may attend the Meeting as delegates. Expenses for one delegate per chapter may be paid from the National funds.

d. The issues before the Regional Meeting, with the exception of the election of the Regional Chairman, will be decided by a majority vote of the delegates.

ARTICLE III ESTABLISHMENT OF CHAPTERS AND CLUBS

Section 1. Qualifications for a Chapter

Chapters may be established in any Engineers' Council for Professional Development (ECPD) approved engineering college or university whose aero engineering curriculum meets the requirements established in this constitution. A petition to establish a new chapter in such a school, may be presented to the Executive Council by five students who would be qualified for membership under Article V.

Section 2. Petition for Establishment of a Chapter

The petition will include the following:

a. A statement from a faculty member, of the university or college which the petitioners are attending, affirming their eligibility.

b. A statement from an authorized official of the school declaring his approval of the Society.

c. A statement from the petitioners that they will subscribe fully to this constitution and agree to support it as it now stands or as it may later be amended.

d. The petition should be accompanied by the catalog or bulletin of the college describing the aerospace engineering curriculum and any available material describing the school.

e. The aerospace curriculum shall meet the minimum standards as set forth by the Executive Council of the Society.

f. The number of students in the aerospace engineering curriculum and the number of degrees awarded to students in this curriculum during the last three years.

Section 3. Consideration of a Petition by the Society

a. The Executive Council will send a representative of the Society to visit the school applying for a chapter charter before reporting on the application, if it is considered necessary.

b. The Executive Council will consider the information and prepare a report of their finds which will be submitted to each chapter.

CONSTITUTION . . . . ARTICLE IV.

c. Each chapter will note on the petition in accordance with the wishes of the majority of the active members and the decision should be returned to the Executive Council within thirty days of the mailing date of the report. If the ballot is not returned within the prescribed period, the vote will be considered affirmative.

d. Chapters may be established only with the consent of three-fourths of the existing chapters.

e. When a petition is approved and a charter is granted, the Executive Council will furnish charter, copies of the constitution, ritual, and other materials necessary for operation of the chapter. The Executive Council will appoint a group to install the chapter and to initiate the chartermembers.

Section 4. Clubs

a. A club may be authorized by the Executive Council on receipt of a written petition of at least ten members of the Society who live within a reasonable distance of each other.

b. There will be a charter fee of twenty dollars.

c. The club will be governed according to the precepts of this Constitution.

d. A club may be present at a convention but it will have no vote.

ARTICLE IV GOVERNMENT OF THE CHAPTERS

Section 1. Chapter Administration

a. The active membership of a chapter will be all undergraduate members who are enrolled as candidates for a degree in the college or university concerned. In addition, graduate students who are enrolled as candidates for a degree and faculty who are members of the Society may be active but may have restrictive voting powers as defined elsewhere in the Constitution.

b. The chapter will establish bylaws, within the precepts of this Constitution, that are required for its operation. A current copy will be furnished to the Executive Secretary-Treasurer for record. The chapter By-Laws are outlined below.

Chapter By-Laws:

Article I Aims and activities of the chapter:

II Chapter Government (Election of Officers), faculty advisors, duty of officers not covered by Executive Council instructions, officer eligibility, etc.

III Meetings and order of business, establishment of quorum for business meeting.

IV Chapter finances.

CONSTITUTION . . . . ARTICLE IV . . . .

V Committees (how appointed, duties and names of permanent committees, etc.).

VI Eligibility standard for election to membership (must equal or exceed those established in this constitution.).

VII Procedure for nomination and election of members.

VIII Amendments

c. The chapter officers will be the President, Vice-President, Secretary, and Treasurer; and these officers may be any active member of the chapter in good standing. Additional offices may be established by a majority vote of the active members, and officers elected.

d. A faculty advisor, who is a member of the Society, will be chosen by the chapter. His term of office will not exceed one school year but he may be re-elected.

e. Officers will perform duties and maintain records in accordance with instructions prepared by the Executive Council. These records will include minutes of the meetings of the chapter, Treasurer's account, the Secretary's files, the list of active and alumni members of the chapter, a correct and itemized account of chapter properties, and officer instruction sheets.

f. The President will be the responsible agent of the chapter. He will be responsible for the assembling of material for the national publication.

g. The Vice-President will have as his special duties the filing of current chapter news, the maintenance of a chapter history, and the preparation of candidates for initiation into the Society.

h. The Secretary will keep the roll and record book of the chapter, keep the minutes of chapter meetings up-to-date, and see that all necessary correspondence is prepared.

i. The Treasurer will keep an accurate and understandable account of chapter funds.

j. The chapter officers will complete and submit by May 1 and by December 30 a report form which will be furnished before that date to the chapters by the Executive Sec-Treas.

k. The chapter should hold at least two meetings of a technical nature during each scholastic year in addition to the regular meetings. Membership election meetings will be followed by an initiation meeting or banquet. Meetings of a social or technical nature may be held with other organizations but business meetings should be open only to members.

l. Official stationery will be used only for the business of the Society. It will be uniform throughout the Society and may be obtained through the National Office.

CONSTITUTION . . . . ARTICLE V.

ARTICLE V. MEMBERSHIP IN THE SOCIETY

Section 1. Grades of Membership. There will be but one grade of membership in the Society.

Section 2. Who may be a member.

a. Students directly associated with aerospace engineering who are degree candidates and who are eligible for membership (with approval of the Executive Council in questionable cases) as prescribed in Article V, Section 3a-3b will be elected by the student chapter.

b. Individuals in the aerospace engineering profession are eligible for membership, as prescribed in Article V, 3c. An individual, to be considered eligible for membership, must either, 1) have made worthy contributions toward the advancement of the aerospace engineering profession, 2) be a teacher of aerospace engineering or related subjects, or 3) have made such a significant contribution to science that he may be deemed worthy of membership in the Society.

Section 3. Qualification for Membership.

a. Undergraduate Students

1. To be considered for membership, must have completed at least five quarters or three semesters of their college work and have been a resident for a minimum of two semesters or three quarters at the time of their candidacy for membership. Senior students in their last semester or quarter may be considered if they have completed one semester or two quarters in residence and are approved with an unanimous vote of the active undergraduate membership of the chapter.

2. Must be in the upper one-third of their senior or upper one-fourth of their junior aerospace engineering class. Sophomores who have shown outstanding achievement and are in the upper one-fifth of their class are also eligible for membership. Individuals who have a scholastic standing slightly below that specified, but who are exceptionally qualified in other respects may be elected by the unanimous vote of the eligible undergraduate votes required for the election of members.

3. A chapter may establish higher scholastic standards than those specified, with the unanimous consent of active members, but the standards can never be lower than those specified in this constitution.

4. Candidates for membership must have shown, in addition to scholarship, qualities of high moral character, an active interest in aeronautics and astronautics, and an interest in the Society.

5. Students enrolled in night schools may be considered eligible under the same requirements.

CONSTITUTION . . . . ARTICLE V. . . .

b. All graduate aerospace engineering students, including part-time faculty members up to, but not including the ranks of instructor, must fulfill the same eligibility requirements as for undergraduates regardless of their undergraduate engineering field. In addition, the student must maintain graduate standing satisfactory to his institution. They must have been residents for a minimum of one semester or two quarters at the school and have completed at least two-fifths of the credits required for the graduate degree toward which they are working at the time of their candidacy for membership. Voting will be as specified in Article V, Section 5.

c. The procedure of selection of these individuals covered by Article V, Section 2b will be:

1. Nomination shall be made by a member who is not an undergraduate student.
2. Nomination will be submitted on a form prescribed by the Executive Council to the Executive Council.
3. The Executive Council will pass on the nomination and notify the nominator of the action taken.
4. After approval of nomination, election to membership will also be contingent upon receipt of a letter from the nominee accepting nomination. Individuals so selected will not acquire membership in any specific chapter.

Section 4. Voting on Undergraduate Candidates for Membership.

- a. The President of the chapter will conduct the elections.
- b. All votes will remain secret.
- c. A quorum consisting of three-fourths of the active undergraduate members must be present. Voting on candidates for undergraduate membership will be done only by active undergraduate members.
- d. A three-fourths vote of the members present is required for the election of senior students and a four-fifths vote is required for election of junior students.

e. The voting may be conducted in three ballots with one ballot being cast for each candidate before a second ballot on any candidate may be taken. A second ballot will be taken only on those individuals who fail to receive the requisite number of votes. The third ballot will be taken only after all second ballots are completed and then only on those candidates who failed to receive the requisite number of votes in the second balloting. The voting on the first two ballots may be yes, no or undecided, but on the final ballot there will be no undecided votes or abstentions. Discussion should precede each ballot.

Section 5. Voting on graduate student candidates for membership: The procedure for voting on graduate student candidates is the same as outlined in Article V, Section 4, except that both undergraduate and graduate members will participate in the voting.

CONSTITUTION . . . . ARTICLE VI.

ARTICLE VI INITIATION CEREMONIES

All members should be initiated into the Society with a dignified ceremony. The nomination, pre-election procedure and initiation process will be as specified by convention. The ceremony will be open to all members and guests of members and initiates. No secret symbols and ritual will be introduced and at no time will any initiate be subjected to practices harmful to his personal well-being, or be required to do anything that would injure his dignity as a person.

ARTICLE VII DISCIPLINE

Section 1. Discipline of Chapters

- a. A chapter may be disciplined, by convention, for violation of the constitution, lack of representative at conventions, continued inactivity, or such other activities as may be specifically banned.
- b. Fines may be determined and levied by majority vote of the convention.
- c. Suspension or expulsion of a chapter may occur only by a three-fourths vote of the convention.

Section 2. Discipline of Members

- a. Members may be disciplined by the chapter for continuous and unexcused absence from meetings, failure to carry out assigned duties, behavior unfitting a member of the Society, or any act considered warranting such action.
- b. A chapter may levy fitting fines for undue and unexcused absence from meetings or infractions of chapter by-laws.
- c. Any disciplinary action taken against a member by a chapter may be appealed by the member to the Executive Council.
- d. Suspension or expulsion of a member from the Society may be initiated, at the request of a chapter, by the Executive Council but may occur only with the approval of three-fourths of the chapters' representatives at a convention, or by mail vote of three-fourths of the active members. If the ballot is not returned within thirty days, the vote will be considered in favor of expulsion.

ARTICLE VIII RESERVE FUND

Section 1. It will be the duty of the Executive Council to maintain at all times a reserve fund invested in securities of the United States Government only, and registered in the name of the Society. These securities will be kept in a safety deposit box under the joint custody of the Executive Secretary-Treasurer and the National President. This safety deposit box will be rented by the Society and will be used solely for the storage of securities and valuable papers of the Society.

CONSTITUTION . . . . ARTICLE VIII . . . .

Section 2. The reserve fund will be maintained as an insurance against financial emergencies endangering the life or seriously impairing the activities of the Society. It may be drawn on by the Executive Council only when four-fifths of the active chapters approve. The majority of the ballots of the active chapters must be received to constitute a binding vote. If the ballot is not returned within thirty days, the vote will be considered affirmative.

Section 3. The convention is authorized to draw on Reserve Fund as prescribed by Section 2 of Article VIII where concurred in by a four-fifths vote of the active chapters present.

Section 4. Whenever the reserve fund has been reduced below a total face value of \$100 per chapter, replacement shall take precedence over all expenditures of the Society except the necessary operating expenses and obligations existing at the time of the draft of this fund.

Section 5. Money in the reserve fund contributed by a particular chapter can be used to pay the chapter's debts to the National Office or to other chapters, if the chapter is declared inactive. Remaining money, in excess of that needed to pay debts remains permanently in reserve fund to be used as stipulated by present wording in Article VIII, Section 2 and 3. Upon reactivation, the chapter must restore its contribution to the reserve fund to \$100.

Section 6. At the discretion of the Executive Council, a portion of the national treasury at the end of each fiscal year may be transferred to reserve fund until the fund reaches a face value of \$5,000.

Section 7. All interest on the reserve fund will be added to the fund when the fund reaches a face value of \$5,000. Subsequent to the reaching of this total, all interest will be transferred without delay to the national treasury to become a part of the general income of the Society.

Section 8. At such time as the reserve fund reaches \$5,000 face value, this sum shall be set as the permanent minimum balance rather than the \$100 per chapter specified in Section 5.

Section 9. Upon establishment of a new chapter the initiation fee for each member will be one dollar more than the normal fee established by convention. This fee will continue until \$100 has been accumulated. The accumulation of this fund is to be added to the National Society reserve fund.

Section 10. The Executive Secretary-Treasurer will receive the required reserve fees from the chapters. He will keep all financial records of the reserve fund and submit a written report to be read and approved at each national convention.

ARTICLE IX AMENDMENTS

Amendments to this constitution may be proposed by a chapter, club, or national officer. The proposal must be transmitted to the Executive Secretary-Treasurer so that he can notify all chapters. The chapters should, in turn, consider the proposal and instruct their convention delegates if a convention is impending or return their vote by mail. It must be passed by a three-fourths vote of the active chapters.

SIGMA GAMMA TAU

<u>Chapters</u>	<u>Year Founded</u>
University of Alabama	1948
Auburn University	1965
California State Polytechnic University, Pomona	1979
University of Cincinnati	1968
University of Colorado	1974
Georgia Institute of Technology	1951
University of Illinois	1948
Iowa State University	1949
University of Kansas	1950
University of Maryland	1966
Massachusetts Institute of Technology	1949
University of Minnesota	1943
Mississippi State University	1971
University of Missouri-Rolla	1974
*Polytechnic Institute of New York	1955
North Carolina State University	1970
Northrup University	1974
Ohio State University	1950
University of Oklahoma	1927
Pennsylvania State University	1957
Purdue University	1947
Rensselaer Polytechnic Institute	1945
Texas A & M University	1957
University of Texas (Austin)	1957
University of Texas at Arlington	1970
Virginia Polytechnic Institute	1947
University of Virginia	1970
West Virginia University	1954
Wichita State University	1932

\*Polytechnic Institute of Brooklyn (1955) and New York University (1957) became one chapter of Polytechnic Institute of New York in 1974.

NATIONAL EXECUTIVE COMMITTEE

1979-1981

President:

Dr. Blaine R. Butler  
Purdue University  
West Lafayette, IN 47907

Vice-President:

Dr. Malcolm A. Cutchins  
Auburn University  
Auburn, AL 36830

Executive Sec-Treas:

Ms. Roberta J. Cameron  
Purdue University  
West Lafayette, IN 47907