Petroleum Engineering Launched at Tulane

Dean Thompson this fall announced the start of a new project for the School, a master's degree program in petroleum and natural gas engineering.

This new curriculum is being added to the courses of study available through the Graduate Division of the School according to Dr. Raymond V. Bailey, the Dean of the Graduate Division.

Dr. Maynard M. Stephens, Director of Special Projects, is responsible for the development of what, in time, should become a full department of petroleum and natural gas engineering.

Courses of the present graduate program are taught after 5:00 p.m. so that the graduate students may continue to work full time yet obtain their degree after working hours. Although the courses are attractive to those students holding a bachelor's degree in petroleum, still the main thrust of the program is to serve those students from other branches of engineering or geology who now find themselves employed by an oil or service company.

The response to the announcement was most gratifying. At present fifty-six students are registered as Master's degree candidates. Since there is not currently a full four year undergraduate program in oil and gas, advanced students and seniors in engineering and geology are permitted to register for the more basic courses of the curriculum as a career elective. Over all, over one hundred and ten students attend the four to six courses offered each semester.

All of the instructors are either presently employed in the industry or have broad industrial experiences in their specific subject. Although the courses offered are similar to those at other well recognized petroleum schools, there is a uniqueness in the program in that the widely experienced instructors can expose students to ongoing and day to day problems of the industry. Further, industry is giving direct advice and guidance to the project by suggesting courses of study, and in some cases aiding with the recruitment of professors.

Courses to be offered in the

At the May Commencement Exercises the School of Engineering awarded an Honorary Doctor of Science Degree to George Rufus Brown, President of the Brown Foundation, and former President and Chief Executive of Brown & Root, Inc. Pictured above is Dr. Karlem Riess, University Marshal, hooding Mr. Brown as President Hackney hands him the diploma.

(Cont. on Page 3)
NEW FACULTY — FALL 1979

STANLEY H. BENTON was on the faculty of Mathematics and Computer Science at Montclair State College in New Jersey before joining Tulane's School of Engineering as Associate Professor of Computer and Information Systems on July 1. At Montclair he chaired a committee which was instrumental in developing the Computer Science program. He has served as a Senior Computer Science consultant in developing software packages for the financial and industrial community, as mathematical consultant to several industrial concerns and as a systems engineer, statistical analyst and programmer and systems analyst for industry and for the Air Force.

Dr. Benton earned his undergraduate degree at the United States Naval Academy and the Master's and Ph.D. degrees at Tulane.

STEPHEN D. COOK accepted an appointment as Assistant Professor of Biomedical Engineering on July 1, 1979.

After completing his Doctoral requirements at Tulane, Dr. Cook joined the staff of Biomedical Engineering as a Post-Doctoral Research Associate in the Biomedical section. He has particular expertise in computer-implemented solutions of complex sets of nonlinear partial differential equations and has written and presented several papers at professional meetings on finite element analysis of dental implants.

Dr. Cook, originally from Fort Lauderdale, Florida, did his undergraduate work in Chemical Engineering at Tulane. He has served as research and teaching assistant in Chemical Engineering and has had consulting and research assignments with local industry.

ALASTAIR J. CLEMOW, Assistant Professor of Biomedical Engineering, joined the Biomedical Laboratory staff as a Post-Doctoral Fellow in January, 1978 and was appointed to an assistant professorship in July of this year. Dr. Clemow, a native of London, is a biomaterials expert with a Ph.D. in Metallurgy from the University of Surrey in England.

In addition to his teaching assignments, Dr. Clemow will continue his research activities for the Biomaterials Laboratory group in the Department of Biomedical Engineering.

One of his current assignments also is to serve as Director of the Materials Testing Laboratory, jointly used by Biomedical, Civil and Mechanical Engineering.

RICHARD W. FREEDMAN joined the faculty on July 1 as Assistant Professor of Chemical Engineering. Before coming to Tulane, he was a member of the research staff of IBM Corporation's T.J. Watson Research Center in New York, where he studied the fabrication of thin film structures.

Dr. Freedman attended Pratt Institute for his undergraduate work, and earned his Doctor of Science in Chemical Engineering at the Massachusetts Institute of Technology. His research interests include mathematical simulation and control theory, numerical methods, biomedical engineering, and plasma etching. Dr. Freedman is the faculty advisor to the Tulane Chapter of the American Institute of Chemical Engineers.

SHIEH-TSING HSIEH, Visiting Associate Professor of Electrical Engineering, comes to Tulane from the faculty of Purdue University where he had served as Assistant Professor since 1975. Dr. Hsieh, who was born in China, earned Master's and Doctorate degrees at Tulane University. His undergraduate work was done at the National Chiao-Tien University in Taiwan.

Dr. Hsieh's teaching expertise is in electromagnetic fields, communication systems, electronics and applied mathematics and research expertise in microwave electronics and biophysics.

He has collaborated with Dr. Y.J. Seto, Professor of Electrical Engineering, on the publication of several papers.

ANNUAL MEETING—
November 10

The 1979 Annual Meeting of S.T.E. is scheduled for Saturday, November 10 - Homecoming Day. It will be a luncheon meeting in the Faculty Dining Room of the University Center, with social "hour" at 11:45 and luncheon at 12:30. President Perrin hopes that you will join him and other officers of the Society on this occasion.

Luncheon reservations are necessary. (Call 504/865-6105). The cost will be $6.50.

Let's have a good turn-out!
STE STUDENT CHAPTER REPORT

Who are the officers of the Student Chapter of the Society of Tulane Engineers for 1979-80? Last year’s Engineering Student Council decided to try to bring the Louisiana Engineering Society (LES) to Tulane. Several years ago LES tried to start a Student Chapter here but not enough people seemed interested in forming a Chapter. This year there is a newly formed Chapter with officers who were elected in a preliminary meeting in April, 1979. These student officers were asked to handle the duties of the Chapter of the LES as well as the Society of Tulane Engineers (STE). The Student Chapter was given the Name of TES - Tulane Engineering Society. In August, the request was granted for a charter, and the TES officers are working to get this charter right now. The first meeting on September 26, 1979 didn’t draw a large crowd, but the few students who did come were pleased with the presentation. TES hopes to generate some interest in the Freshman and Sophomore classes to help get the society moving. The society is for helping all students in learning about professionalism, but is especially interested in reaching the freshman and sophomores. Future activities with UNO are on the agenda.

The Engineering Student Council and STE officers are planning this year to improve the student lounge with a coke machine, phone, etc. Some students are already investigating possibilities.

Engineering Week plans are already underway, but it is too soon to know exactly what the projects will be. There will be several projects and speakers throughout the week and high school students are invited to come visit the different exhibits and see what engineering is all about. Anyone who feels that he can help in any way with Engineering Week at Tulane, please contact Rene J. Broussard, President of STE (ChE ’80). Engineering Week will be ended in the usual manner with a dance, this year probably on a riverboat.

In the Spring I hope to have reports from all technical societies.

SUMMER COMPUTING INSTITUTE TO BECOME ANNUAL EVENT

During the months of June and July the Computer and Information Systems Department ran a new and unique program called the “Summer Computing Institute.” This program had two major purposes. First it provided an umbrella under which various computer science courses could be offered during the summer. Secondly, the Institute brought together a heterogeneous group including high school students, undergraduates and graduate students into a “Computing Camp” atmosphere.

In addition to regular coursework, programming "teams" were formed to work on large projects. Among the projects were an interactive CRT terminal graphics package, a generalized microprocessor assembler system and an interprocessor magnetic tape file transfer facility.

The Institute was in formal session from 9 A.M. to 1 P.M. daily with the computing facilities available for the remainder of each day. At the conclusion of the Institute, each participant was presented with a certificate indicating their successful participation in the program.

The program was an academic as well as a financial success and it is planned to make it an annual event. Interested parties can contact the Computer and Information Systems department at 865-4185.

ELECTRICAL ENGINEERING DEPARTMENT HEAD SEARCH UNDERWAY

A faculty search committee is evaluating applications for the vacancy which will occur on July 1, 1980 when Professor James A. Cronvich retires as Head of the Department of Electrical Engineering. If any alumnus knows anyone who might be interested in applying for this position, please write to the Search Committee for Electrical Engineering Department Head, School of Engineering. The Committee will welcome suggestions.

PETROLEUM

(Cont. from Page 1)

spring will include reservoir engineering, secondary and enhanced recovery, decision making and risk analysis, petrophysics and well log analysis, oil property operations and principals of petroleum engineering. Current plans are to offer at least two or more additional courses for the fall of 1980. These may include oil field machinery, computer application to oil problems, reservoir characteristics and oil project management.

Plans are being made to develop an undergraduate program in petroleum engineering as soon as space and funds become available. It’s remotely possible that a tightly limited class of freshmen will be started into the developing program as early as next Fall of 1980.
**LEE JOHNSON RETIRES... AGAIN**

Having attained the age of seventy years and being required by the regulations of the University to retire, Dean Emeritus Lee H. Johnson departed last June from the Tulane scene after devoting almost thirty years to the affairs of the School of Engineering. As all but the most senior of our alumni will recall, Lee served the School as Dean of Engineering from 1950 to 1972. After his retirement from the deanship, he instructed our freshmen classes in the fine points of the Calculus. As was his habit, he soon began to make an extra-ordinary successful contribution to the School of Engineering in this new endeavor. Freshmen fought eagerly to be in his classes.

His lively sense of humor, his keen insight, and his dedication to the cause of the School of Engineering will be sorely missed by those who must continue to conduct the educational enterprises of the institution. All has not been lost, however, by the students. Lee presently teaches two sections of Calculus at Newman High School in the City. The School of Engineering eagerly looks forward to the time when we may have the opportunity to receive students who have already been trained by this singularly outstanding gentleman.

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**Venezuelan Engineers take Special Training**

Last year, the School of Engineering instituted an innovative program at Tulane. According to Hugh A. Thompson, Dean of Engineering, the Venezuelan organization Deltaven, formerly Texaco, but now a part of the state-owned and operated petroleum holding company, Petroleos de Venezuela, sent three middle-management employees to Tulane for special training.

Since last year, Deltaven has combined with five other groups to form a larger company, Corpoven, and there is a possibility that other engineers will come to us from Corpoven in January. That team will direct its attention to project management rather than offshore structures.

Corpoven has plans to open a new chapter in its energy history by extending its explorations for oil offshore into the waters of the Atlantic and Caribbean. During previous years, adverse conditions such as strong waves and currents, and unstable sea bottom, and high oceanic winds have forced otherwise experienced Venezuelan engineers to limit their country’s oils and gas activity to either the Lake Maracaibo area or on-shore sites. Special training needed to deal with the unique and challenging offshore conditions is being provided for these engineers here at Tulane, and last year’s team has already returned to important assignments in Venezuela.

This year’s special training group is made up of Adalberto Suarez and Franklin D. Verde. Dr. Maynard M. Stephens is the project leader, and in working with Dean Raymond V. Bailey of the Graduate Division. Sens. Verde and Suarez will be here at Tulane for nine months and have enrolled in three Civil Engineering classes, Offshore Structures and related courses at night. During the day the Venezuelan engineers will make field trips to as many as thirty companies and government agencies for briefing and some on-the-job training. A few of the firms and agencies assisting Tulane in this management training are J. Ray McDermott, Brown and Root, PetroMarine, Raymond International, Halter Marine, Odeco, The Bureau of Land Management, and The United States Geological Survey.

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**Alumni News...**

Irvin A. Ebaugh
Chemical
Retired and being taxed to death

Capt. Alwyn Smith, Jr. USN (Ret)
Mech., 1941
Retired after 31 yrs. service

Alfred J. Cooper
Civil, 1934
Presented with ASCE Life Membership 11/78

Glenn P. Orgeron
Elec., 1968
Major in U.S. Marines - admitted to LA. Bar

C. Henry Guell
Chem., 1935
Retired - works part-time at VISA - USA, Inc.

Howard A. Moore, M.D.
Eng., Pre-Med, 1969
Began practice 7/78 - Sports Medicine

CMR. M.H. Loy, USN
Mech., 1963
Commanding Officer - USS John Rodgers - Spruance Class Destroyer

Richard Joel Moss
Elec., 1975
Chief Electrical Engineer for COAP & RASCOVAR. Consulting Eng.

Edwin Vennard
Mech. & Elec., 1924
"Who’s Who in America" also author of four books on energy
STE PRESIDENT’S MESSAGE

Dear Tulane Engineer:

This being my last official message to you as your President, I have both positive and negative reports regarding your Society as relates to financial support and personal involvement this past year.

Your financial support has allowed us to both cover operating expenses and drastically reduce past deficit. However, because of the necessity to reduce deficit, the Society was not able to accomplish several special projects desirable in support of the School. This administration will leave the Society in position to renew those programs, and to accomplish that which is not available through standard University funding. Your new or continued financial support is mandatory for these efforts to succeed.

There is a very strong base of support behind the Society and the School of Engineering. Our work is coordinated with the School Administrators, the students, and the Board of Advisors, and each would welcome your individual involvement on personal basis. As with all other opportunities for service, your rewards will be in proportion to your expended efforts. Involvement with your Society can be personally rewarding.

This past year I had opportunity to visit campuses of various universities, both state and privately supported, throughout the United States. In reflection, Tulane's engineering program is equal or superior to each of the other programs reviewed. Student body, administration, faculty, academic program and campus atmosphere are qualities about which we can point with pride. However, mass engineering alumni involvement and support is one area where Tulane could improve. Isn't it ironic that we as individuals and as a Society control our destiny the most in this one area?

Finally, may I thank those who have given special support to us this year. My sincere gratitude is extended to my fellow officers, the board, and school administrators whose assistance has made the year memorable and rewarding.

Yours very truly,

ROY A. PERRIN, JR.  
President 1978-1979

NEWS BRIEFS

- Renovation is still in progress and equipment being purchased for the new Pendleton Lehide Electronics Laboratory, which will be located in Stanley Thomas Hall.

- Dr. Robert Bruce (E '52) has returned to his faculty post from a sabbatical leave as Fulbright Fellow in Burma — a few months of fascinating and frustrating experiences that he will not soon forget — and he is glad to be back in the U.S.A.!

- How many people know that one of the many talents of Professor Chester Peyronnin (E '47) is fencing? He is Coach of the Tulane-Newcomb Fencing Team and teaches intermediate and advanced fencing classes for the Physical Education Department in addition to carrying a full teaching load in Mechanical Engineering. This year's fencing team is composed of 50% engineering students.

- Professor Walter Blessey (E '40) will return to his duties as Head of the Department of Civil Engineering in mid-October after serving as President of the American Society of Civil Engineers.

Alumni News...

Walter W. Rody  
Civil, 1948  
President, Port Allen Marine Service, Inc.

Jay Zimmerman, III  
Mechanical  
Married June 24, 1978 to Billie Arellano

Edward J. McNamara  
Civil, 1937  
Member State Board of Examiners for Professional Engineers & Land Surveyors

J. Bres Eustis  
Chemical, 1934  
Chairman of the Board, Eustis Engineering Co., Inc.

Lawrence V. Beckman  
Chemical, 1964  
V.P. Tano Corporation

M.M. Norton  
M.E., 1932  
City Secretary, Pattison, Texas

David J. Levine  
Mechanical, 1951  
Nominated as Director at Large of ASHRAE

Timothy J. Patrus  
Elec., 1968  
Director of Planning Section - Creole Production Services, Inc.

Judith Ann Kron  
Chem., 1977  
Field Engineer - Engineering Service Ltd. Dupont Co.

H. William Herbst  
Civil, 1945  
Sr. Vice Pres. & CEO Kidde Consultants, Inc.

Charles A. Bender, Jr.  
Mech., 1928  
Thoroughly enjoyed the 50 yr. reunion

Joseph E. Poche  
Mech., 1910  
Finally joined STE - 90 yrs. old
Alumni News...

William E. Aicklen, Jr.
E.E., 1949
Past Chairman, N.O. Sect. I EEE

Brad Moore
Civil, 1976
Engineering Group Leader - Otis Eng. Corp.

Michael Brennan
Mech., 1969
Handles Mergers & Acquisition - Ingersoll - Rand Corp. also expecting a third child.

Edward R. Estes, Jr.
Civil, 1945
Professor & Chairman Civil Engineering Dept., Old Dominican University

The picture above shows Roy Perrin, President of STE, presenting STE's Outstanding Faculty Award for 1979 to Associate Professor of Mechanical Engineering, Louis P. Orth (E '53) at the Awards Program in April.

STE OFFICERS — 1979-80

President .................. George C. Kleinpeter, Jr.
First Vice President ........ Ashton B. Avegno, Jr.
Second Vice President .... John W. Holtgreve, Jr.
Secretary .................. Larry A. Perrin
Assistant Secretary ........ Dale T. Hunn
Treasurer .................. Dan W. McCarthy
Assistant Treasurer ........ Marina Elliott
Director and Publication Chairman . Oliver S. Delery, Jr.
Director and Historian .... Victor J. Law

TREASURER’S REPORT

Dues and Donations collected .................. $6,007.00
Expenses:
Printing (1978, 1979)..............$5,266.10
Banquet (1978) ..................
Other
Balance on hand .............. $740.90
Accounts Payable (1979 banquet) .... $983.80

D. McCarthy
Treasurer

SOCIETY OF TULANE ENGINEERS
Tulane University Alumni House
6319 Willow Street
New Orleans, La. 70118