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Editorial

"The time has come," the Walrus said,
"To talk of many things . . ."

Although the above excerpt from Alice in Wonderland may belie the seriousness of this editorial, it has significance upon the evolution of Embry-Riddle as a school. This became particularly apparent by the graduation last month of our first group of engineering students. Such an event must cause a moment of reflection by the serious-minded, not only on the action which made it possible, but on the significance of graduation of students from an Institute of higher learning. The term "University" is carefully avoided as it implies universal learning, and we are not at that stage of development.

But there is nothing far-fetched or unreasonable in considering a Technical Institute as something which complements the University in a special area of study; in our case, science. And as it complements it must, as a University, contemplate a necessity of man's nature, that incessant occupation with knowledge.

Our school has graduated thousands of students, and has gained a world-wide reputation for the quality of craftsmen we have developed. In the popular sense the term "craftsmen" bemeans the intellectual processes and exalts the acquisition of a skill. This connotation is untrue; for the term, properly taken in its context, must, as a University, contemplate a necessity of man's nature, that incessant occupation with knowledge.

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Two years ago the idea was revived at Embry-Riddle that we were ready to move seriously into the area of higher education. Such a move required a great amount of responsible thought and action by those who dared this step. And with it a boldness of action. For those who dared, a faith in one's objective was as great a need as the careful exercise of reason; these two aspects of man's powers become the concomitant of each other. And if the actions of men are the test of their convictions, then there is reason to be proud of what has been accomplished at Embry-Riddle.

But unless it appear that too much credit is given an abstract entity, the school, let it be known that we mean by Embry-Riddle all those engaged in our educative process. To the members of the graduating class, let it be known that none of this could have been accomplished without their faith and careful use of reason. An unconsidered impulse could have at any time made an irreparable damage to the program. This did not happen. The proper exercise of reason, the unsounded sources of faith prevented its happening.

What of the future? As the quotation from Alice in Wonderland infers, we stand at that point in our progress where we, in time, look both backward and forward, to what we have done, to what we desire to do. Will the program appear a novelty of place and circumstance, of men easily pleased with themselves; or will the boldness with which the program began prevail? This will in some measure depend upon the graduating students, that they justify their training at Embry-Riddle by doing well in their chosen profession. And as much as that they, as Alumni, must show their continued interest in the school, in its progress, unless we might falter and let circumstances dictate the school's existence and its standard of achievement. By continued association, the fidelity to high purpose will prevail. The members of the faculty wish on this occasion to salute the members of the graduating class.

The next issue of the Flypaper will be a special issue for the Aircraft and Powerplant Department. Consideration will be given to its history of development, its personnel, its growth and expansion during these last few years, and ideas it holds forth for future development. A special issue for Flight will follow in short order.

ENGINEERING GRADUATES

William R. Burris: Mr. Burris, first president of the Student Council, spent the first seven years of his life as a farm boy near Chesterton, Maryland. He graduated from Chesterton High School in 1948, joined the USAF in 1949. He spent three years with the service as a control tower operator, and one year in Taegue, Korea, as an Air Route Traffic Controller. After his discharge from the service, he spent 18 months with American Airlines. Deciding he needed to further his education to increase his career opportunities, he enrolled in Embry-Riddle's Aeronautical Engineering Course. He was a prominent student at E-R and was elected as the Student Council's first president. As such he addressed the undergraduate students at Commencement exercises.

His new job will be with Convair Aircraft Corp., San Diego, California. He will be working in the Engineering Flight Test and Analysis Group as an Associate Engineer.

Harold M. Christensen: This young man is one of those Michiganders who come to Florida to enjoy the weather. But Chris was sidetracked into work and study, and this he did. Actually, Chris was born in Muskegon, Michigan. He attended primary and secondary schools in Montague, graduating from Montague High School in 1947. He attended Trinity University for a year before going into the Air Force. After serving in the Air Force he came to Embry-Riddle to continue his college education in the Engineering school.

Like several of the students, Chris married during his training at Embry-Riddle. We wish him continued good fortune, both in his marriage and his new job as Junior Engineer, Aerodynamics Group in Missile Development Division, North American Aviation, Downey, California.
Albert M. Hopkins: Al was born in Cleveland, Ohio, but later moved to Mitchell, Ind., where he attended elementary and secondary schools. Following graduation from High School, he worked for two years as an automotive mechanic. In 1950 he enlisted in the USAF and served a tour of duty in Northern Japan. He attended the Air Force A&E school at Sheppard AFB, Texas, then trained in the Jet Engine Specialist's school at Chanute AFB, Ill. He was discharged from the Air Force in 1954, then began his training at Embry-Riddle in the Engineering School. He has decided on a position, as has several of the boys, in the Far West. He will work as Associate Engineer in the Design Department of the Ryan Aeronautical Co., San Diego, California.

Anderson E. Hood, Jr.: One of the top students in the class, Mr. Hood is a native Floridian. He was born in Jacksonville, later moved to Miami where he has spent the past twenty years of his life. In 1949, he enlisted in the Air Force and served in that branch of service for four years, putting in a tour of duty in the Far East. He is undecided as to where he will eventually accept employment, although he has had many fine offers. He wants to continue his education and acquire eventually a Master's Degree. He can do it, and from our observation of him these past two years, he will do it. Good Luck!

Angelo S. Karadinos: This is a Happy Warrior. Angelo always added a bit of humor when the going was tough. He was born in Washington, D. C., where he received his elementary and secondary education. In 1947, he attended the Colorado State College for a year, then enlisted in the Army Engineering Corps. After his discharge from service he came to Embry-Riddle to continue his engineering education. While here Angelo married; in fact, he may be said to have started the trend in the Engineering School. We wish him continued good fortune in both his marriage and his new position as Associate Engineer with Ryan Aeronautical Co., San Diego, California.

Richard W. Kreitz: One might suspect from his blond hair, blue eyes, and features that Richard is from Minnesota. Well, he is. He was born in Minneapolis, where he lived until he entered the Army. He served with this military service until 1952, at which time he took a job with Braniff Airways as a line mechanic. In 1954 he came to Embry-Riddle to continue his education along engineering lines. On August 26th of this year, Richard married Alice D. Weber, a lovely young woman who was formerly a hostess with Pan American Airways. The Engineering School would like to express their congratulations to this young couple on their marriage. They are at present honeymooning in the north woods of Minnesota – a beautiful place. As of yet, Richard hasn't decided upon the offers he has received for a job in engineering. He is principally interested in a Flight Engineer's position with Pan American Airways.

James M. Sharpe: One has the feeling about Mr. Sharpe that here is a young man who is going to do things in engineering. He has a quiet efficiency which is a pleasure to behold. He comes to us from Reidsville, N. C., where he received his elementary and secondary education. After graduation from High School, he entered the Air Force, where he served his country for six years. In 1954 he entered Embry-Riddle's School of Engineering, where he did an excellent job scholastically. One might suspect he plans to continue his education in engineering. While working for McDonnel Aircraft Corp., as an Associate Engineer, he intends to study at George Washington University, St. Louis, Mo. We hope he continues until he can hang that M.S. degree onto his name.

William O. Wiley: There is always one outstanding student in every class. In this group that student was Bill Wiley. Not only did he excel scholastically, but he entered into school activities with the seriousness and dependability which is his nature. Bill was class Valedictorian at the graduation ceremonies and gave a fine talk on the needs, the advantages, and the opportunities offered an Aeronautical Engineer. Bill is a native Virginian, born and educated in Roanoke, Virginia. He graduated from Jefferson High School in 1950, then served with the 1st Marine Division in Korea during the

Engineering Graduates (cont.)

Emmett R. Dalton: This handsome, strapping young man entered the field of aviation rather early in life. While attending Morristown High School, Morristown, N. J., he was active in the CAP, the Morristown Flying Club, and was a member of the American Model Assoc. Following graduation from High School he moved to Miami, where he attended classes in A & E at Lindsey Hopkins. He entered the Army in 1950, was discharged in 1952, after which he entered Embry-Riddle A & E school. He was a top-ranking student in that course. In 1954 he decided to continue his aeronautical training and enrolled in the Aeronautical Engineering course. He holds a private pilot's license. As other of the students in the Engineering school, Emmett married during his training at Embry-Riddle. We wish him continued good fortune in both his marriage and his new position with Glenn L. Martin Co. as Associate Engineer in Structural Design.

Oliver J. Delliges: One of those "Michiganders" who admire Florida living, young Delliges came to Florida in 1954 to enter Embry-Riddle's Aeronautical Engineering Course. He was born in Watersmeet, Mich., where he received his early schooling. Always active in aviation, having belonged to several Flying Clubs, he eventually wound up operating a small airport and flying school. The desire for adventure caused him to join the Merchant Marine, during which service he sailed the world's oceans. His present interest is to build better airplanes. To do this, he will join Mr. Dalton at Glenn L. Martin Co. as an Associate Engineer. He will be attached to the Propulsion Division.
ENGINEERING WELCOMES NEW STUDENTS

As the seniors leave for their work in the world, new students are entering in greater and greater numbers. The department wishes to welcome the new freshmen entering engineering at Embry-Riddle.

Mr. Smathers, a young engineer at Lockheed Aircraft Corp., talked to the graduating class on the organization of the aircraft industry, what to expect, what opportunities are presented, and the great need of coordinating activities in a modern aircraft plant.

In his speech he stated that young men with the nerve and determination to do things, to also work with his fellow men, can achieve a greater measure of success in this industry than any similar industry. This is a new industry. This is a young man’s work. Mr. Smathers, as well as our own Mr. Williams, is an example of what young men can accomplish in this work.

Mr. Smathers was particularly careful to note the demand for cooperation required in the Aeronautical Industry, because the design and building of aircraft is such a complex enterprise. All is not a cut-and-dried affair of merely carrying out duties; there is a rewarding association with other young people of similar interests, a time for humor and practical jokes, a community within a community: in short, a place where a man can be a human being and as a function. The paper hopes the young men who have recently graduated will take his words with seriousness and determination.

The Engineering Faculty

On the occasion of the graduation of our first Engineering students, the editorial staff of the paper thought it apropos to introduce the faculty which helped make this possible. The faculty, while the smallest of any department, is a very capable one.

William C. M. Anderson: Mr. Anderson has had a distinguished career in both Industry and Education. Space does not permit our listing all his academic honors, but he has achieved many, and he seems to gravitate naturally toward academics. He was born in Cannonsburgh, Penn., in the dormitories of the oldest college west of the Allegheny mountains, Jeffer-son Academy, where his father was Headmaster as well as instructor in the Classics. At an early age the son was transported to Norfolk, Va., where he received much of his early education. He attended the University of Pennsylvania, where he studied Chemical Engineering. He later won a scholarship at Rutgers. While at this University, he played football (it is reputed that he caught the longest forward pass ever made in college football). He became editor of the humorous magazine, was an honor student, and held many other honors.

After graduation he worked for the Industrial Conveyor Co., which closed its doors during the depression. He was then employed at Rutgers Prep School to teach Math, German, and Latin. He later went to work at Edward G. Budd Co., as an engineer, then to Westinghouse Corp. He resigned Westinghouse to work with Glenn L. Martin Co. until 1946, at which time he came to Florida. He was with the Dade County School system from 1946 until he came with Embry-Riddle in 1955.

Burton Downing: What makes a thing good? Especially what makes such a tenuous thing as a new course in education work? Certainly, one of the important factors is the willingness of men to strive for something outstanding. Mr. Downing is that factor; his energy, his desire for perfection, his willingness are now a part of Embry-Riddle. In the new engineering course, he was its first instructor.

A native Floridian, Mr. Downing received his primary and secondary education in this state. He then attended Tri-State University where he received his Bachelor of Science Degree in Aeronautical Engineering. He later spent a year of study at North Carolina State University.

Before coming to Embry-Riddle he had a varied and extensive career in Aeronautical Engineering. The many positions he held cannot all be listed, but below is a representative list: Naval Bureau of Aeronautics, Lockheed Aircraft Corp., Dynamic Air Engineering, Eastern Airlines, Flight Equipment Corp., Chance-Vought Aircraft Corp. Even now, with his many duties as an instructor, he serves as a Consultant Engineer to private corporations.

H. Kendall King: A misconception exists in most minds that an engineer is seldom interested in anything outside of engineering. Mr. King is the proof that this is a misconception. A well-educated gentleman, and a pleasure to talk to, Mr. King can converse on many things. He can, if asked, quote a soliloquy from Hamlet, as remote from the field of engineering as anything could be.

Mr. King was born in Virginia and obtained his early education in Richmond, where
he attended both High School and the Virginia Mechanics Institute. Later he studied Mechanical Engineering at Lehigh University, then switched to Physics. He received his Bachelor of Science Degree in Physics from George Washington University, St. Louis, Mo. At the start of his career he worked as a draftsman with the Va-Carolina Chemical Corp, York River Shipbuilding Corp., and Bethlehem Steel Co. During World War I he was an assistant examiner in the U. S. Patent Office, which employment was interrupted by service in the U. S. Navy. Shortly after the war he was employed on the staff of the National Bureau of Standards where he served for more than twenty years. During World War II he was appointed as Mechanical Engineer at Patuxent River Naval Air Test Center. Later he was Physicist for the CAA and opened a new laboratory at the Technical Research and Development Center. Finding the Florida weather congenial to his nature, and wishing to retire from full time activity, he came to Embry-Riddle to establish our Physics department and instruct in Physics.

Mrs. Olive McCarthy: The mother of two children is the newest and the first woman teacher to come to the Engineering School. Mrs. McCarthy was born in Trempealeah, Wis., a small town on the upper Mississippi River. Mrs. McCarthy is a graduate of Carleton College, Northfield, Minnesota where she received her M.A. degree. Upon her graduation from college she taught in High Schools in Minnesota. From the H.S. stage she went on to teach in the University of Minnesota in Minneapolis and the North Dakota Agricultural College in Fargo. While she was at the University of Minn. and the University of Wisconsin she taught advanced mathematics. After the climate became too cold, she came down to Miami where she taught at the University of Miami and various High Schools.

She entered the technical staff of Embry-Riddle at the beginning of this semester to help our math teachers who were teaching in classes that were too large for individual instructors. The Flypaper staff wishes Mrs. McCarthy a hearty welcome and good luck as an instructor in the Engineering School.

Christian R. Withrow: Mr. Withrow, a native of Florida, is our youngest instructor in Engineering, having only recently obtained his degree in Mechanical Engineering from the University of Miami. After obtaining his degree he worked for a time at Lockheed Aircraft Corporation, Burbank, Calif. Being native to Florida and not California, he returned to Miami in 1955, at which time he accepted a position as instructor at Embry-Riddle.

While attending the University of Miami, he was a member of the Engineering Honor Society, and was active in the ROTC. He received a Lieutenant's Commission in the Army Corps of Engineers in 1955.

Other activities, principally the game of chess, must have occupied his spare time at the University, for he excels in beating all comers who think they know more than the basic fundamentals of the game. He has the disturbing habit of baiting an innocent-looking trap, and you bite, then powie – you are checkmated. Mr. Hughes, his principle opponent, can well attest to this, as can Mr. Dittoe and Mr. George.

**ENGINEERS HOLD GRADUATION DANCE**

On the night of the Grad dance, if one were to have casually walked into the Engineering drafting room, he would hardly have recognized it as a place of serious study. The ingenuity of the student's held forth and changed it into a breezy, palm-studded, dimly-lit room for a gay time. A gay time was had by all. The dance was held in honor of the graduates in the Engineering School. The work was ably done by members of the Student Council who spent the better part of two days making decorations. They even enticed Kim, one of the students, to shinny up some palm trees to acquire palm leaves for decoration. All in all, the room looked very nice.

As the dance was a great success, it is hoped the future will hold more of the same. The funds acquired from the sale of tickets will be used by the Student Council for student benefits.

**The Engineering Director**

*Robert M. Williams: Our Director of the Engineering School, Mr. Williams is a young man. There is a very good reason that a young man heads up the Engineering School, for with youth rests vision, energy and purpose. But Mr. Williams is more than just a young man with a purpose; he has proven himself an educator, which demands considerable judgment in the exercise of energy toward a purpose.*

After graduating from High School, an immediate selection of a vocation was obviated because of World War II and the inevitability of the draft. After finishing Field Artillery Officer Candidate School, with top grade for his class, he went to the Pacific for Duty.

Having been an aeronautical enthusiast since childhood (the soloed at the age of 18 after only 5½ hours instruction. He took his wife of the hop. He had no problem in deciding upon aeronautics as a career. He entered the Massachusetts Institute of Technology. Financial problems during his schooling required that he supplement his income with work; this he did by working in the Aerodynamics and Structures Research Laboratory at MIT.

He received his Bachelor's degree in 1950 and Master's degree a year later. He accomplished 5 years academic study and 2 years experience in any 3 years, 10 months. After graduation he joined the Glenn L. Martin Co. as a Senior Engineer, reportedly the youngest in the Company. Then he joined the Bureau of Aeronautics as Assistant Head of the Flutter and Vibration Unit in the Airframe Design Division. Joining the Lockheed Aircraft Corp. as a Vibrations Engineer, he created and served as Head of the Dynamics and Fatigue Section in the Engineering Test Laboratories. He taught part time in the Catholic University Graduate School.

The Aeronautical Engineering Review, October 1954, contained one of his publications "Design of an Airfoil Oscillator." His favorite expression, which may serve as sound advice for students is "The more you learn, the more you realize how little you know." The editor, with permission, add a postscript to that thought by saying, "that when one realizes how little he knows, he is on the threshold of wisdom, a rather uncommon commodity these days."