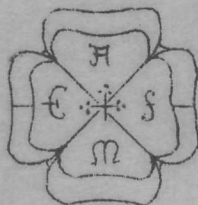
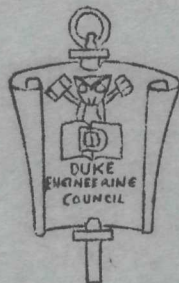


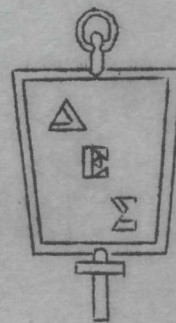
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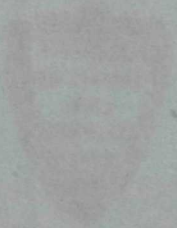
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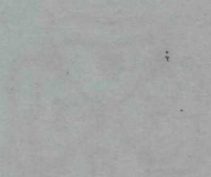
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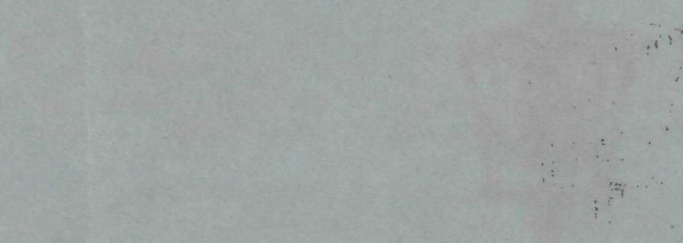
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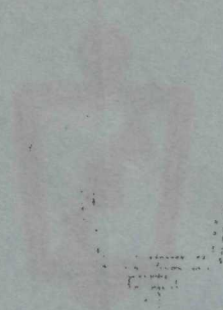
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COLLEGE OF ENGINEERING
DUKE UNIVERSITY
Durham, North Carolina

The Engineering Council wishes to dedicate this first issue to the progress made in engineering at Duke University which led to the establishment of the College of Engineering. This publication is strictly a student venture, and as such it will act as a medium through which the students can keep in contact with the functions and activities of the various engineering organizations. It will also serve to promote greater interest and initiative in extra-curricular activities by giving recognition for work done in this field. Lastly, it will tend to bring about a better relationship between the faculty and the students.

We wish to thank Dean Hall, Mr. Tyree, Mr. Williams, Mr. Theiss, Mr. Vail, and Mr. Kraybill for their valuable assistance in making possible this publication. We hope that the aims and purposes will be realized, and that this publication will develop into a record of the progress of the College of Engineering.

R. E. Perinovich
President of
Engineering Council

IMPROVEMENTS

by
E. Carter

The past three years have seen great steps in improvement and expansion taking place in the Engineering School culminating in the setting-up of a College of Engineering. Not only have the laboratories added equipment but Southgate, the Engineering Buildings, and surrounding grounds have been greatly improved.

A few of the minor changes in the Mechanical Engineering Department have been a new boiler and auxiliaries, a Diesel engine, extensive hydraulic equipment, a steam engine, and additions to the machine shop equipment.

In the electrical engineering department considerable interest has been centered in the new 200,000-volt surge generator which constitutes the major equipment of the high voltage laboratory. A new motor-generator set was added to the circuits laboratory, and the machinery laboratory was completely renovated and the equipment rearranged for more efficient use. Two 100-foot steel radio towers were installed for the antenna of radio station W4AHY.

The chief improvements in the Civil Engineering Department have been in the development of the Soils, the Advanced Stresses, and the General Materials Laboratories. Great additions have been made to the surveying equipment and to the Bituminous and Sanitary Laboratories.

Asbury Hall has been completely renovated. The main drawing room has been remodeled, and a better lighting system has been installed. One of the smaller rooms on the second floor has been converted into a blue-print room, and a smaller drawing laboratory has been built on the third floor.

These are merely indicative of the many improvements that have taken place during the last three years. We hope that the College will continue to move forward along these lines and that the coming years will see even greater advancements.

STUDENT BRANCHES OF THE TECHNICAL SOCIETIES

by Wm. Larsson

We take advantage of the opportunity this publication offers to remind all engineering students of the purposes and aims of the student technical societies--namely, the American Society of Civil Engineers, the American Society of Mechanical Engineers, and the American Institute of Electrical Engineers.

The founders of these societies assume and feel sure that engineering students at any recognized and accredited institution receive adequate technical training to enable them to hold jobs after they graduate. They also feel sure that the probabilities of meeting with success in engineering depend largely on one's ability to get along with people. This quality is usually classified as personality. Some like to refer to it as salesmanship, the ability to sell one's self and one's ideas. Call it what you like, we as engineers must resign ourselves to the fact that without this quality we are doomed to insignificance or, at the most, mediocrity as far as engineering success is concerned.

Now it would be wonderful if we could enroll in Personality Development - 177 - Monday-Wednesday-Friday at 8:00 and feel sure that all of us who pass with a "C" or better will have acquired a winning personality. Such courses are given and thousands of books have been written on the subject and they do help a little. However, there are no short cuts or sure-fire rules that will help us much in this respect. Our only hope is to be exposed to actual conditions that almost force us to get along with people.

The student branches of the various technical societies grew out of the realization that rigorous engineering curriculum has to be supplemented by some other training in order to prepare the students for later life. The following objectives are being sought by these societies:

1. To add to the student's acquaintance with the practical sides of the various fields of engineering.
2. To furnish the student with the journals of the respective societies, and to keep him in touch with engineering progress by making our library a depository of the three societies.
3. To develop the student's initiative and ability to speak in public and to familiarize him with the parliamentary procedure and organization of learned societies.
4. To enable the student to establish fraternal contact with his fellow engineering students and to meet and mingle with men engaged in active engineering practice.

A POINT OF INTEREST.....

Dean Hall points out that over one-half of the 1940 graduating class already has been placed with well known firms, including Bethlehem Steel, General Electric, Westinghouse, Aluminum Co. of America, Wright Aeronautical Corp., and the Atlantic Coastline Railway. A report shows that all of the 1939 graduates are now employed.

The Duke Engineers' Show included exhibits and demonstrations in the seven Civil Engineering laboratories. The laymen and teachers (the distinction being that the teachers wanted to talk while the laymen were more or less willing to let the engineers do the talking) who visited the show were more interested in seeing specimens broken than in seeing, for instance, the internal stress distribution in a plastic model under a load. So the "civils", with Boehling, Himmelright, and Drew in charge obliged by pulling apart steel bars, stretching bituminous specimens, and breaking concrete blocks.

Many onlookers were amused and mystified by Alex Molena's demonstrations in the Soils Lab. Alex had a lot of fun with the partial vacuum method of stabilizing sand, although the general audience lost the technical significance in a maze of ideas of their own.

The modern trend in engineering research was shown by the photoelastic analysis exhibit, which was demonstrated by Alpert, and with the Beggs Deformeter, handled by Perry. Both of these exhibits dealt with the study of indeterminate structures.

The water supply lab received its share of attention with the "Water Plant", a potted plant which apparently made water. Exhibits on water purification, stream gaging, and the study of bacteria in water were ably handled by Carl King and Phil Mitchell.

And then there was the exhibit which everyone thought of as soon as they heard "Civil Engineer"--the Surveying Room. Host Dutch Werneke had a transit set on a West Durham clothes-line to illustrate the purpose and usefulness of the instrument. Alidades, theodolites, and levels added to the glitter of the lab.

Throughout the building were numerous other smaller demonstrations and shows including a test for automobile drivers, a layout of the C.A.A. course which had been taught by Prof. Bird, and a section for the work of the Astronomy students.

The show ran smoothly (except for the person who asked Groesbeck where the planet Venus was in the year 2 A.D.) and all the participating students enjoyed it as much as the visitors.

C.E.'s MEET IN CHARLESTON, S.C.

-by J.D. MacLauchlan, Jr.

Eleven members of the Duke Chapter of the American Society of Civil Engineers journeyed to Charleston, S.C., for the third annual Spring Meeting of the Carolina Conference of Student Chapters and were the guests of The Citadel during the three days of the meeting, April 19, 20, and 21.

On the journey southward the party stopped off for a few hours Friday afternoon to visit the Sante-Cooper Hydro-Electric Project. The visitors were fortunate in being able to make the acquaintance of

C.E.'s Meet in Charleston

Chief Soils Engineer, Fusick, an intimate friend of Prof. Watson's, and through Mr. Fusick's courtesy in making a complete inspection of the whole project. This is an earth-fill dam with a reinforced concrete powerhouse and a set of locks that is an integral part of the 10-ft. navigable channel from the port of Charleston to Columbia, S.C.

Friday night, the members of The Citadel chapter demonstrated their ability as hosts at a dance in honor of the visiting delegates

The business meeting got under way Saturday morning at 9:00 A.M. with an address of welcome by General Summerall, President of The Citadel. Stan Zynda, President of The Citadel student chapter presided and introduced the speaker of the morning, Commander Mack Angas, Engineering Corps, U.S.N., who spoke on the place of the Civil Engineer in Shipbuilding.

Following Commander Angas' talk, papers were presented by representatives from each chapter of the Conference. At the completion of the presentation of papers, the executive committee held its meeting and elected officers of the Conference for the coming year.

Saturday afternoon the visitors were shown the sights of Charleston (the ones they had not already seen) and were taken on an inspection tour of The Citadel campus.

In the evening, a banquet was held in the Mess Hall annex with Lt. F.R. (Sally) Couch acting as Toastmaster and doing a superb job. The principal speaker for the evening was Mr. W.M. Wannamaker, former engineering student at The Citadel, and at present President of The Citadel Alumni Association. Mr. Wannamaker's talk was most amusing as well as instructive. At this time the winners in the competition of the presentation of papers were announced by Colonel Anderson, a member of The Citadel faculty, and the awards provided by the South Carolina Section A.S.C.E. were presented. The winners were:

- 1st...Kocb, The Citadel---"Military Engineering"
- 2nd...Smith, N.C. State---"Highway Safety"
- 3rd...Groesbeck, Duke ---"Underpinning a Chimney"

Saturday night the delegates proceeded to look over the city of Charleston all the way from West Street to the Battery, and by Sunday morning concluded that it was an interesting and historical town.

Through the courtesy of Commander Angas, another friend of Prof. Watson's, the Duke men stopped Sunday morning at the U.S. Navy Yard north of Charleston and were taken on a very thorough inspection trip. The party had the privilege of seeing everything from the blue-print and machine shops to the ways where two new destroyers were under construction.

The Carolina Conference of Student Chapters, A.S.C.E., is composed of the chapters from N.C. State, Clemson, University of South Carolina, The Citadel, and Duke University. It was formed three years ago through the efforts of Jack Abbott and Chas. Nickerson, former Duke C.E.'s.

The Duke men making the trip were Prof. J.D. Watson, Mitchell, Groesbeck, Drew, J. MacLauchlan, Werneke, Alpert, Perinovich, W. MacLauchlan, Boehling, and Harrington.

IT HAPPENED IN CHARLESTON

-----the comment about W. MacLachlan's size-----
Mitchell's "misfit"-----Drew's escapade-----the
good care that was taken of Harrington's car-----
the breaking of barracks-----"doing the town"-----
Herm's "queer" attitude Saturday night-----Drew
and MacLauchlan looking for a bed Saturday morn-
ing at 2:00 A.M.-----Perry's "dancing Dream"-----
MacLachlan visiting the Rathskepper-----the taxi
ride home-----Watson being late for the Saturday
morning meeting (he looked it too!)-----getting
stopped five times for riding around the city
without lights-----"Dutch" tagging along-----and
visiting Ashley Hall-----persuading the cop in
front of "Mike's Place"-----The Good Time Had By
All!!!!

—o—

A.S.C.E. ACTIVITIES

By

A. Alpert

Climaxed by a trip to Charleston, S. C., by ten members, the Duke University Chapter of the American Society of Civil Engineers has completed another successful year capably led by President Wm. Groesbeck. The bi-monthly meetings have held the interest of nineteen active members, a 100 per cent membership rating of all students eligible for admission into the society.

Early in the Fall, the Duke Chapter played host to the Carolina Conference Convention, which includes: N. C. State, Clemson, University of South Carolina, The Citadel, and Duke. Due mainly to the efforts of J. D. MacLauchlan, Conference Secretary-Treasurer, the meeting was highly successful. Top speech honors were won by Phil Mitchell who spoke on the Failure of the Fort Peck Dam. This topic reflects the influence of our newest faculty addition as well as faculty advisor, Professor John D. Watson, who has earned a reputation as a soils expert.

Student speakers predominated during the year with every member having a chance to express views on his favorite subject. "Children's Hour" was especially entertaining with seven of our sophomores presenting 10 minute talks. Bill Larsson,

A.S.C.E. Activities (Continued)

prize-winning M.E., was a guest speaker, and his excellent talk was greatly enjoyed.

Professor Constant, former head of Princeton's C. E. Department, gave an inspiring talk on his early career as an engineer, and showed some slides contrasting an old bridge on which he had worked and some of the modern structures which were partially designed at Princeton. This talk was one of the highspots of the year's activities.

At our meeting of May 2, the new officers were elected. Francis Werneke was chosen President; Bill Dres, Vice-President; and Bill MacLachlan, Secretary-Treasurer.

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INTRAMURAL SPOTLIGHT

By

J. H. Eddy

Looking back over the past eight months, the "Shackmen" carry on new victories, hard battles--above all the best sportsmanship possible--and showing the athletes from the West Campus we're a hard bargain in Intramural Sports.....starting off with a bang--a division companionship--finally, battling the Sigma Chi's for the university football championship.....The story: a blocked punt recovered on our two yard line led to our rivals' victory in the last three minutes of play.....After football came volleyball.....one defeat, at the hands of the Sigma Chi's--loss of the division championship.....Next came basketball--do we feel proud--entered two teams--the "B" team suffered one defeat to lose the division--"A" team undefeated--University champions by downing our arch rivals, the Sigma Chi's.....The end of the first semester--the bowling team (Snea, Brandon, Burgess, Robinson, Dunbar, and Donahoe) finalists against the SAE's for the championship--however, division winners.....The pugilists had it out--the finalists--Brandon defeated Fraas in a close one for the 120 lb. title--Murphy, winner in the 175-pound division--Denis, semifinalist in the 128 pound class.....The grapplers grunted and groaned--Mitchel a winner at 135 pounds--Bean, Fraas, and Denis struggled hard.....The aquatic individuals--Droge and Fraas taking third places.....And now--batter up.....looking forward to two division championships (large and small ball)--maybe another University championship.....The bowling team--fighting for the top.....we're pulling for you--good luck.....The best year Southgate ever had!

THE DOPE

With apologies to any persons living or dead who take offense, we begin the engineer's scandal.....Bill Drew seems to be finding Brown house satisfactory these days.....we suppose the sun shines bright on that side of the quadrangle.....Robinson is in love.....also on the wagon.. again.....Bob Brown seems to be on the ball with some Durham girls.....and Erwin hasn't broken a date in the past week.....nice going, Cess..... we wonder when Griff will really mean it when he says, "I have to look into that".....then there is Ronnie still looking for a "sweet" girl.....Smokey says he will be, quote"A.S.M.E. pinned up" unquote- before the end of the semester.....Johnson is still in school, physically.....it looks like Chuck Hanson has quit the Roeses or perhaps it is the other way around.....Kieser is still wearing Jackson's war paint every week-end or so.....if they ever dedicate a new library, Dick Wilbur will be their man.....the "library-lounge lizard".....more credit to Hege on his choice of women.....what is the matter Marsteller?.....it looks like Rasmussen has quit Durham and gone back to Roanoke.....how is the Watkins affair Schoonie?.....(we leave this place blank for you to draw your own conclusions)..... Bradley, secret nominee and dark horse for the title of "world's worst wolf" did have a date the other night.....Kelly is plugging away in Sally's territory along with eight other guys.....Bill Scott is still in there pitching.....who is the latest, Scottie?.....KILLER DROGE turning on the heat.....Cummins says two can live as cheaply as one but only half as long.....Larson seems to be batting a good average in his league (What league?).....Russell and Marie.....Poister and Postue are still true to their home town girls; after seeing some pictures you can't blame them.....Ed says Phyllis is coming all the way from Winnetka..she knows her dances (plug).....looks like Perinovich will make a good president.....things we would like to see.....Clous relax when he walks.....Tom Olson and Charlie Dodson double dating.....8.5 Andrews drinking Beer.....B. Mac not drinking Beer.....Shea with his hat off.....ad infinitum..... Bruce Tuten still gets the dates.....Dorsey has another..gone but not forgotten.....Phil Monroe must have something on the ball when five "home-towners" come to see him.....Ask Dale Myers or Brandon about these Durham picnics..they seem to be at all of them.....Shirley made it steady the other day.....at last Hendee has let the East Campus overcome his resistance.....McKinney has a different picture on his desk these days.....so absence doesn't do the hear any good after all.....Porter is out of love.....Evidently Laros

The Dope (Continued)

likes to do the "pitching" and not vice versa.....
Sixteen is a little young isn't it Ezelle?.....We
wonder which prof it is that can smoke a cigarette,
umpire a baseball game and tilt a schooner at the
same time.....Spangler is still quite the ladies-
man and the man's man too.....Ask Bargeon how he
got that latest cole.....it wasn't snow.....and how
did Denis get that eye.....J. Mac is ready to get
married.....wonder why he keeps it so quiet.....
Dunbar-the chief-says no East Dukeing at night.....
Al Hunter's shortcoming seems to be dating two women
in the same house.....and Schlerf has moved from
Jarvis to Pegram.....Hugo is batting .998 in Millie's
present league.....Who is the beautiful girl (or
girls) that comes to see Charlie Hipp....."Uncle"
Ernie may follow the example set by some of the
other young altered profs.....any replies or criti-
sims may be sent to

Yours truly,

The Dope

o

SPRING DANCE

Another successful spring Engineers' Dance was held on Friday, May 3d, in Southgate Gymnasium. The decorations and all arrangements were well up to the high standard of the engineers' dances, which have earned the enviable reputation of being the best decorated and fastest moving on the campus.

The motif of the decorations was a tropical beach scene complete with cabanas, palm trees, and stars. Jack Payton's Orchestra provided the musical background.

THE ELECTRICAL ENGINEERS' EXHIBIT by R. Price

The most spectacular exhibit in the EE department was the high voltage demonstration. The public is not exactly used to being so close to so much lightning, miniature or otherwise. Those blinding and deafening arcs of high voltage won't be forgotten soon. In fact, we understand that one lady became slightly hysterical and grabbed hold of Gus....Give Vail's crew--Dorsey, Holley, Griswold, and Olson--plenty of credit. They all worked hard to get things ready.

Next in line in attracting attention were some of the stunts down in the machinery lab. Mr. Meier's electric eye had a lot of people guessing. Ditto the metal quoit game where it was practically impossible to toss a ringer unless one possessed that certain magnetic personality. One spectator--probably a carnival operator--was offering good money to learn the secret of that quoit game....Martin's lie detector, built after the fashion of those used in crime detection, was quite popular, especially with the fellows who brought dates. Some interesting questions were asked....Then there was the female motor, so called because it couldn't make up its mind which way to go. It just reversed itself continually....Some hocus pocus called elephants milk was rather mystifying. This milk was so strong that heavy steel nuts and junk floated on its surface--apparently....Mr. Meier, "Doc" Kraybill, Bardon, Byrum, and Martin had a lot to do with preparing this Lab, with assistance during the Show from Sawyer and Sheats.

In the electronics Lab, Rutledge became so expert with the electric burper that he could make it play "How Dry I Am." The Love Meter which he and Tuten handled also came in for some attention. This Lab displayed a so called Degenerate Cycle. It was arranged so that when a light was turned on, a photo-electric cell operated a relay which turned off the light, which caused a "photo-electric" cell to operate a relay which turned on the light, which next turned off, then on, etc.

Batten, Vickers and Womble had charge of the circuits Lab. Their exhibits included several flea-power motors such as are used in electric clocks, an M-G set, and a magic cooker which boiled water in a kettle to which there were no electrical connections.

Chapin demonstrated the transmission of sound over a beam of light. The apparatus was similar to that used in talking motion pictures.

Sisk and Dale Myers had a group of commercial power meters in one room, including one which went backwards. These two fellows seemed to be most successful in blowing fuses. Patterson and Parker ran the short wave station W4AHY, --or rather tried to. There was a lot of static caused by the high voltage discharge and other equipment. The movie projector in Asbury's Assembly room was run at various times by Bean, Cochran, Everett, Moffat, and Dick Myers

For the first time the freshmen put on an exhibit of their own. Sherertz, Kleinhenz, and Hambsch ably demonstrated light phenomena. The Show ended with an informal get-together of EE students and professors. Refreshments were served--thanks to the faculty.

MISSISSIPPI(E.E.) by V.Olson

On April 8 Professor Seeley and eight electrical engineering students left Durham to attend the 1940 annual Convention of Southern Student Branches of the American Institute of Electrical Engineers at State College, Mississippi.

Traveling in two cars, the party made short stops at Copperhill, where they saw the effects of erosion of the soil, and at Chattanooga Tennessee, where they visited Lookout Mountain. After stopping to pick up another student, they continued on to Muscle Shoals, where a complete tour of Wheeler and Wilson Dams was made. An inspection of the generating units, transmission system, navigation locks and flood control system was made. The group also visited a government owned fertilizer plant (adaptable to making munitions) and a pig iron factory in Birmingham, Alabama.

The Convention started Thursday night with an informal smoker for the visiting engineers. The meeting was opened with an address of welcome by Dr. W. Hand, Vice-President of the college. The national president, F. Malcolm Farmer, responded to the welcoming address in behalf of the American Institute of Electrical Engineers.

The afternoon session was devoted to the presentation and discussion of six student technical papers. At the banquet that night, Mr. Louis Anderson of the University of Louisville was awarded the first prize of fifteen dollars, his paper being a highly technical one on the T-Ray. Second prize went to Healy and Wilkenson of North Carolina State College, and third prize to Mr. Kehoe of the University of Alabama.

At the Friday night banquet Mr. F.R. Maxwell, Vice-President of the A.I.E.E., presided as toastmaster. The feature address of the banquet was made by Mr. G.W. Thaxton, Chief Engineer of Rural Electrification Administration, of Washington, D.C. The theme of his address was, "After Graduation, What?" Immediately following the banquet the visiting engineers were the guests of the "M" Club at their annual dance.

Saturday's program consisted of a business meeting and the selection of the University of Alabama as hosts for the 1941 convention.

The Duke Electrical Engineers who made this trip were Professor W.J. Seeley, John Byrum, George Kellerman, J.C. Rutledge, Augustus Griswold, John Barden, James Highsmith, John Batten, Earl Sisk, and Vernon Olson.

IT CAN'T HAPPEN HERE.....

"Pop" Seeley up on a chair at the banquet to give his speech--- his refusing to be "dated up" with a housemother---Griswold and Rutledge making good use of "lovers permit" to pick up three girls----- Highsmith scaring a country hick by throwing a well executed fit---- Byrum and his beautiful (???) pickups---Batten's special "come hither" whistle being overworked---dance with cash prize for girl wearing the

shortest skirt---Kellerman advocating such dances at Duke---pillow-fights aplenty each morning with "Pop" as target---Barden wondering what potholes in the Ocohee River were for---two extra passengers in party up the Smokies---snowballing at Newfound Gap---everybody wishing for trip to go just two hundred miles further southwest---Sisk going for "Southern (torrid)" brunette at dance---Byrum hunting whistle cord on Mississippi paddle wheeler--- u ledge's two hour "hello" in Greensboro----

DUKE AIEE MEETINGS PROVE INTERESTING

During the past school year several AIEE meetings highlighted the activities of the Duke student branch. Early in the year Mr. E.H. Danner, of the Durham Telephone Co., discussed the wide variety of the telephone field by pointing out the features of sales, construction, and maintenance work.

At a later meeting the Duke chapter joined with that at N.C.State where the electrical laboratories at Raleigh were inspected.

The underground system of the Durham Public Service Company was taken up by Mr. R.M. Love of that firm.

Three talks were given by faculty members. Mr. C.R. Vail's illustrated description of the apparatus used in the "artificial lighting" display at the New York World's Fair proved of unusual interest. Mr. E.E. Kraybill presented an informative discourse on polaroid and its many applications, and Prof. Otto Meier showed the advantage of fluorescent lighting, a branch of illumination which is of increasing importance, both in the home and in industry.

ANOTHER BARRYMORE?

While dozing through the faculty plays your star reporter was awakened from his slumber by an old familiar voice. Upon looking up, I could scarcely believe my senses. "No, it couldn't be," I kept telling myself, "Surely, this must be a dream." But truth will out, and there on the stage was none other than the illustrious Mr. Wesley Williams of "Strength of Materials" fame putting his best class-room acting into effect. Mr. Williams had the lead in a suave comedy of the lightest vein entitled Sham (or should there be an e after the m?), and was giving his best performance of the year in his characterization of the easy-going Charles. Those who didn't know him as we do, marveled at his ability to play such a part--but we know differently, don't we, class? Even the rest of the audience had its doubts before the play was finished when "Red" nearly upset the well-known "apple-cart" when he started taking "moments" with his size twelves about the corner of the sofa. It's been rumored that our hero will make his next appearance in "East Lynne" or is it "West Durham?" Ah, well, here's hoping.

She fussed, she raged because I had
To go to the library that day.
'Twas the first day of Spring and the birds did sing,
And she wanted to go out and play.
But there was Thermo and Strength and a bit of E.E.
That must be done for the morrow.
For if 'tis put off till another day
'Twould be a day of sorrow.
There's Prof. Wilbur at eight o'clock
With his double or maybe triple talk.
I've got to know just what he means
When he writes with six colors of chalk.
And there's Reed, the old Simon Legree
Who sits there and snaps his whip.
If we're not ready when that whip cracks:
A quiz--and what a pip!
But the day is pretty and the sun does shine,
And I sure would like to go
Out to walk among the birds and trees
And watch the Eno flow.
This lab report, I can't put it off,
For Mr. Vail would gripe;
He knows that when it comes in late
It's just a bunch of tripe.
It sure is tough to sit and watch
The birds in their leisurely flight;
I guess I'll take her out to play
And do this mess another night.

THE ENGINEER'S SING

The Duke Engineers conducted a very popular Community Sing on Sunday evening, April 14th. All comments from the University community serve to indicate that the program was outstanding among the sings on record. This success is largely due to a group of students under the leadership of Jim Robertson, ably assisted by Mrs. Hall and Miss Monier.

The program included a variety of selections. A double quartet composed of Everitt Carter, Jim Eddy, Carl Lauppe, Cecil Lucas, Hugo Phillips, Jim Robertson, Bob Price and Don Sparrow sang three numbers that were very favorably received. Dick Beeson, Ronnie Johnson, Tom Miller, and Dick Daugherty presented a popular "jam session." A more unusual note was struck in a selection for violin and piano by "Ignatz" Spangler and "Yehudi" Larsson. Miss Monier, the Engineering Librarian, came to the assistance of the all-male student body to sing four songs that were well received by the audience.

A vote of thanks should be extended to Mrs. Hall for her able and successful coaching of the double quartet and her accompaniment of Miss Monier.

D. E. S. HOLDS ANNUAL SPRING
BANQUET

Meeting in a private dining room in the West Campus Union, Delta Epsilon Sigma, honorary senior engineering fraternity, held its annual spring banquet Monday evening, May 13.

The men present included those newly initiated from the Junior and Senior classes and the honorary members from the faculty of the College of Engineering. The outgoing president, J. D. MacLauchlan, presided and called upon Dean W. H. Hall and Mr. Tyree for a few words.

Dr. W. H. Wannamaker, Vice-President of the Educational Division and Dean of the University was then introduced and gave an interesting and beneficial talk.

Following Dr. Wannamaker's talk, the new officers for the year '40-'41 were introduced and William Larsson, the new president was called upon for a few remarks. President-elect Larsson responded with a few well chosen remarks, expressing his appreciation for the honor of the office bestowed upon him and expressed the hope that they could successfully carry on the work of the organization.

Other out-going officers are: George Dorsey, Vice-President; Curtis McCallio, Secretary-Treasurer; and H. O. Schmidt, Corresponding Secretary.

The remaining officers for the year '40-'41 are: Robert Perinovich, Vice-President; Carl Lauppe, Secretary-Treasurer; and William Drew, Corresponding Secretary.

NOTED EDITOR VISITS DUKE COLLEGE OF ENGINEERING

Among the many notable visitors of the College of Engineering in the past year was Mr. Phillip W. Swain, editor of Power Magazine, who inspected the College Thursday, May 9. He was escorted through all the engineering buildings by Professor Wilbur.

Mr. Swain expressed amazement at the growth and expansion of the engineering equipment here at Duke since his last visit about seven years ago when Asbury alone housed the equipment for all three departments. Mr. Swain, accompanied by Mrs. Swain, made a complete tour of our campuses and both expressed their regrets in being unable to spend more time enjoying the sights of what they termed "one of the most beautiful scenic spots they have ever witnessed."

THE SHOW by J.L. Fisher

That the Engineer's Show was a success, there is no doubt. And as we look back over it we remember most prominently the refreshments enjoyed after the last visitor had gone. The Faculty really put that part of the Show over with finesse, and our thanks go to them.

One of the most popular parts of the ME show appeared to be Bob Durnell's O-Gauge locomotive. Bob was trying to study for an English quiz thru it all....What a man !

The spectacular point in the Show was the Niagara cascade brilliantly illuminated by colored lights. This beautiful water display came when the steam injector exhibited Ralph Andrews.

The feud of noise between Poister on the air compressor and Chapin on the V-8 was much in evidence. Chapin was at quite a disadvantage until the Ford burned out a gasket.

Lat Jones and his secretary, Charlie Dodson, were exhibiting the "Olds" engine. There is something about that engine when a spotlight is trained on it that compels attention. We wonder if the "Olds" has OOMPH !

Henry Ford's noble effort, the Model T engine, was placed next to the "Olds" for comparison. The Ford had its face lifted for the occasion and, shining with new red and grey paint, presented itself as a serious rival to the "Olds."

We wonder if the 75-year-old steam engine was operating that night. Ask Dan Brandon; he should know because that morning he watched its steam delivery tube form a nice bubble which blew up in his face.

During the course of the evening we answered questions that would have stumped the experts of "Information Please" (and no doubt some of our answers would have disgusted them), but during the din and clatter we learned more about our apparatus than we would have in several lab periods. When it was all over we looked back over a job well done.

ASME TRIP

At the district meeting of the American Society of Mechanical Engineers which was held in Birmingham during the first week of April, Bill Larsson, incoming president of the Duke Student Branch, won fourth place in the speech contest which was held in conjunction with the meeting. Larson spoke on "The Applications of Arc Welding in the Heavy Construction Industries." Speeches were given by the representatives from the sixteen engineering schools which are scattered throughout the South.

The winning speech of the contest was presented by an undergrad

ASME TRIP (continued)

uate from the University of Florida who spoke on feedwater regulation and its effect on steam plant operation. Second place went to a Vanderbilt University student who spoke on the results of his economy tests on commercial gasolines. The third prize went to a student from the University of Kentucky who spoke about a multiple power unit which was composed of six Plymouth engines assembled to transmit power from a common shaft. The fifth prize went to a man from Mississippi State College. He spoke on the problems peculiar to the rice milling industry.

As a featured part of the convention, trips were taken to the Hardie-Tynes Manufacturing Company, Sloss-Sheffield Pig Iron Company, and to the American Cast Iron Pipe Company. The Hardie-Tynes Company is the firm that built the butterfly valves for the Boulder Dam project. One of these valves was being assembled in the shop and was fourteen feet in diameter and weighed about 450 tons. The ACIPCO plant was of an interesting nature from two standpoints; first, the pipes are made by allowing the molten metal to be thrown against the walls of the molds by centrifugal force; and second, the entire plant is owned and controlled by the employees. The Pig Iron Works were most interesting, but the heat that had to be endured in order to see anything was so great that this trip was anything but pleasant. It was an oddity to discover that the good grade of iron ore around Birmingham was practically extinct and the companies of this region are importing their ore from Cuba and Brazil.

The social side of the trip, was also greatly enjoyed. The first night of the convention a dance was given for the visitors. The young ladies were from the finishing schools of Birmingham.

Those making the trip from Duke were Bill Larsson, Carl Lauppe, and Dick Wilbur, accompanied by Prof. F.J. Reid.

A.S.M.E. ACTIVITIES

During the past year the A.S.M.E. branch at Duke has had the privilege of being addressed by many prominent men in addition to its regular program.

One of the highlights of the 1939-40 program was the visit of Professor Christie, ex-president of the A.S.M.E. In addressing a large group of student engineers, including some visitors from N. C. State, Prof. Christie gave an inspiring and interesting talk on some of the problems confronting young engineers and voiced his confidence that the students of today would be the ones to solve them.

The more recent visit of President McBryde, of the A.S.M.E., was also an outstanding occasion. During his brief visit, Mr. McBryde managed to go on a complete tour of the Duke campus and to leave an encouraging thought with the student engineers through his speech on "Engineering."

A.S.M.E. ACTIVITIES (continued)

In addition to having other guests such as Dr. Linebarger, Dr. Carroll, Prof. R. Rankin and Dr. Berry, the Duke Branch of the A.S.M.E. has had its lighter moments. Few will forget that memorable Saturday of not so long ago when the mighty soft-ball teams of the A.S.C.E. and the A.S.M.E. fought for what was good to the last drop. After the "fog" of battle had lifted, the M.E.'s admitted defeat on the baseball diamond but claimed a moral victory from the social angle.

Of the important business conducted during the year, the election and installation of new officers was most recent. The retiring office holders, Howard Schmidt, Wm. Larsson, Don Woollard and Charles Hunter, chairman, vice-chairman, secretary and treasurer respectively, were given a rising vote of thanks for their unselfish and loyal service. Their places were filled by Wm. Larsson, chairman, Hulme Pattinson, vice-chairman, Carl Lauppe, Jr., secretary, and Dick Wilbur, treasurer. Mr. Reid remained as honorary chairman. Under these new men the Branch hopes to continue its pursuit of educational, fraternal, and social activities.

To culminate the social activities of the school year, all members are looking forward to the "Faculty Roast" to be held Wednesday, May 8th. At this annual function, senior A.S.M.E. members take the opportunity of ribbing the faculty members, who will be guests of the Branch. The event has been described as a means of retribution for the seniors who have endured the opposite situation for "Lo, these many years."

NINE MEN HONORED BY DELTA EPSILON SIGMA

by J. D. MacLauchlan, Jr.

Three senior and six junior engineers were honored Friday night, May 3, at the Annual Spring Engineers' Ball, when they were tapped by Delta Epsilon Sigma, honorary senior engineering fraternity. The men named were Everitt A. Carter, James F. Barden, Jr., and Phil Mitchell, II, of the Class of '40; William Drew, Robert E. Perinovich, Charles Holley, Dale Myers, Carl Lauppe, and William Larsson of the Class of '41.

Delta Epsilon Sigma is composed of those men who have been recognized for their excellence in leadership, scholarship and active interest in the work of the College of Engineering. Among its purposes is the promotion of those activities and events that may add weight to the highly recognized position and reputation of the Duke Engineers.

In addition to those men recently tapped, the following men are members of the organization: J. D. MacLauchlan, Jr., John F. Byrum, George A. Dorsey, Curtis E. McCalip, Jr., Howard O. Schmidt, and Cleveland S. Fyles.

