Faculty students consult on campus, career, philosophy

Necrologies

Galbraith delivers first of three lectures on “Economic Values”

John Kenneth Galbraith, Professor of Economics at Harvard University, delivered the first of his three lectures on Tuesday evening. The last two lectures of the series on “Economic Values” will be given by Jan 17 and 21 in Dabney Lounge at 8:15 p.m.

Professor Galbraith, one of the country’s best-known economists, has long been recognized for his far-reaching interpretation of modern economic policy and for his writing on agricultural, industrial, and financial topics. He received his education at the University of Cambridge, University of Chicago, and the University of California, and continued his post-doctoral study at Cambridge University in England. He taught economics at Harvard from 1924 to 1983 and at Princeton, 1939 to 1942.

Magazines and books

During World War II Dr. Galbraith was deputy administrator of the Office of Price Administration and chief of the Strategic Bombing Survey and later in the State Department. He has also been editor of Fortune magazine and has contributed frequently to The New Yorker and The New Republic. Dr. Galbraith is the author of such books as American Capitalism, The Concept of Countervailing Power and The Great Crash, a review of the course of the stock market boom and crash of the 1920s.

Tech debaters face debut on V

Caltech debate squad will appear in a debate for the first time this fall, for which the team will be directed by Alva F. Mead, the new debate coach.

Cuban patterns

Patterson closely followed the U. S. in the New York, the Model U. N. is designed to give groups, the Security Council, and various committees. Most college and universities in western U. S. are sending representatives. Each school represents one nation. As Cuba., . . .

Succor

The position of P. J. business manager is one of the most important jobs on the staff, and the appointment of John P. is one of the academic year.

McKinley essay awards offered

The McKinley English essay contest will offer undergraduate prizes of $75, $50, and $25, and 15 for the most effective 1200 word essay on the topic, "The Individual." Entries must be submitted to Professor Kent H. Smith by April 22.

Dance planned

ASCIT and the junior class will cooperate in presenting a dance after the Caltech-Whittier basketball game on Saturday, January 20.

Slocum to talk on dam construction

Harvey Slocum, will discuss, "Construction of the Bhakra Dam, Punjab, India," at 4 p.m. this afternoon in 204 Engineering. He is presently Chief of Construction of the dam, the world's largest construction project and symbol of all recent Indian engineering progress.

Grand Coulee

Slocum was selected for the job because of his previous experience and reputation gained in the new dam. He is the son of Henry Slocum, who was Chief of Construction of the Grand Coulee Dam.

New policy

A new policy has been adopted by the Associated Students, which requires the assignment of positions to juniors in the upperclassmen. The policy requires that all students be placed in positions according to their interests and abilities.
Advice for job applicants

This is the time of year that companies and prospective graduates are beginning the attempt to come to a meeting of the minds. The companies are looking for young blood to bolster their labor ranks, and students are looking for opportunities for advancement, higher than average salaries, desirable locations, fringe benefits, training programs and anything else they are offered.

It isn't worthwhile to expand on the comparatively lush position of present June graduates in this article. I'm sure we all know the competition is fierce, that graduating engineers and scientists, especially, enjoy in bargaining for employment. Conversely, it would be more beneficial at the moment to re- mind seniors that there is still spirited competition for the more desirable positions. With this fact in mind, it would be helpful to know what interviewers look for when talking with applicants.

Alfred Johnson, a graduate student in mechanical engineering, under the auspices of the Industrial Relations Section and the Placement Office, is conducting a research project recently to determine how interviewers evaluate applicants. Several companies were sent forms which listed eleven qualities that applicants could be expected to possess. They were asked to rate these factors in three groups: primary, secondary and minor. The following results are based on replies from 149 companies in ten fields surveyed in an interview of

"In an over-all evaluation, the relative position of the various rating factors in decreasing order of importance is:

1. Personal Factors
2. Faculty Recommendations
3. Interest in the Company
4. Specific Option
5. Grades
6. General Appearance
7. Previous Work Experience
8. Student Activities
9. Personal References
10. Worked Self Through College

Student's Pre-Interview Preparation"

True, these are not weighted results and that replies differed even within the same industries. Nevertheless, I think it can be surmised that the above evaluations can serve as a construct guidepost for the prospective applicant.

Secretary's Report

NEXT MONDAY the board will discuss revisions to the present system of athletic eligibility. Everyone with a reasoned opinion is invited to attend.

MODEL UNITED NATIONS The board was gratified to see student interest in the Model U.N. About two dozen candidates attended the meeting to discuss the viewpoint of the prospective members of the Tech delegation. The board chose a ten-man delegation headed by Dick Kirk plus three alternates.

FISCAL YEAR CHANGE Don Nierich reported that changing the fiscal year of ASCIT to coincide with the term of office of the major- ity of students' terms is unfeasible. This would elim- inate the problem of auditing the books during the summer without the old treasurer, and the incoming treasurer would have the help of the outgoing one in setting up the new books.

ENGINEERS join the fight against smog

WESTERN PRECIPITATION CORPORATION, which operates irrigation works with the help of a fifty-year-old pioneer in the dynamic expanding field of air pollution control and recovery of values from waste products. This unique organization is not the young engineer the follow- ing exceptional opportunities

- to work closely with senior engineers
- to engage in interesting engineering work which cuts across all Engineering Fields
- to gain experience arming rounds view of relationship of business ventures to environment, engineering, Researches, etc.
- to gain experience in specialized field with advancement potential
- to study and grow familiar with many different indus- trials processes and technologies i.e. cement, paper, water plant, metallurgical, catalytic refining, etc.

PLUS excellent beginning salary, regular increases during training, and generous fringe benefits.

Interviews with June engineering graduates will be at the Caltech Placement office, Monday, January 25th, 9 A.M. to 9 P.M.
Doubled and Redoubled by Gary Brotfand and Kay Sugahara

North
B 76
D 433
D 433
D 943
C 962

East
B 76
H 94
H 140
C 7
D 96
C 7
C 962

South
S A K Q 0
8 A K 8
D 433
C 962
A C 3

West
S 4
B 96
H 140
C 7
D 7
A C 9
C 7

Contract: 7 No. trumpet, declarer South
Opening lead: 4 clubs
With a 27 point hand and a little encouragement from North, South decided to try for the big bid, a contract which otherwise depends upon the listing heart split. However, one of the appealing aspects of bridge is the fact that there are so many possibilities available to the persevering and resourceful player. The possibility employed by the declarer in today's hand is one of the grandest and rarest of all.

South takes the opening club lead in club with the ace.

North runs off five tricks in spades, exhausting the suit, and then proceeds to attack hearts. After two heart leads the hands look like:

North
4 D 3 J 9 C 9

South
4 D 3 J 9 C 9

Now South leads the ace of hearts and West is forced to slough a little club to keep his Queen of Diamonds protected. This renders the play simple. Now each of the 13 diamonds is no longer a threat and may be discarded if necessary.

Next South leads the ace and King of Diamonds, this time applying a squeeze to East. East must retain his good heart and therefore is forced to slough a diamond from the diamonds twice. The result of this series of plays is to leave West and East with only one club apiece, setting up the 9 of clubs on the board.

This illustrates the advantage of a suit far easier than to recognize it in a game. The principle involved is that at least one defensive player (in this case both) is forced to protect more than one suit, if he is to recover his heart to his other heart winners while the defender squirms. In our hand, West had to hold diamonds. East had to hold hearts, so neither could protect clubs.

The particular squeeze illustrated in this hand is called a Volkswagen. The distinguished feature of this play is the unblock- ing of suits by the declarer. In other words, he plays off the top cards of the squeezed suits, thereby setting up tricks for the de- fenders which they will never be able to cash, and also obliges him to hold to his other heart winners while the defender squirms. In our hand, West had to hold diamonds. East had to hold hearts, so neither could protect clubs.

Accidentally Yours is more of a mistake than an accident
by Dick Kirk

The "Accidentally Yours" phenomenon is currently sponsoring "Accident- ally Yours," a light, transparent comedy. Represented in a most humorous show, the play concerns a history professor who wins a prize for writing "Old Time Religion?" a book he really didn't write.

Given this pyrite nugget, the cast goes wild with hectic confusion, creating a general feeling of frustration.

Surprisingly enough, there is a side plot that deals with two people falling in love. A blonde keeps running in and out of a flanny Arab costume. In this plot this doesn't do much to alleviate the mood. The worst problem at this time is the night-which was wet with the rain, but there didn't have to work with.

Maxine Semon, plays a different sort of combination maid.

Campus Brews Crew Crushes Crowd, Creates Chaos

Crew directed the Pomona College student body to an exchange. Hearing that every member of the crew was overwhelmed with women, the varsity rowdies arrived in force.

Schaumburg Subtitle Scores
At the Rickets exchange the nachos, a new variation of the lobby, had returned the compliment. With characteristic Southern savviness, the Old Scamp entered, bowed down low to a fair datemate, and said: "Man, would you like to lounge with me?"

Trumpeting Toll Trolls Triumph
Shouting Ed Fork owns a Triumph. Hollering Howard Ramsey desired to purchase it. "Let me tell you for a ride around the block, Howie," tele-pathed Shouting Ed. Away they went.

What's a four-wheel drift like in this beast, Ed?" tele-pathed Howard. "A triumph," Ed shouted. "The Shouting Ed is directed to appear in Pasadena Municipal Court on or before February 17, 1977." (Beak's note: Shouting Ed managed to pull down his second ticket in four days by get- ting caught making a Utman last Monday night. Two more, and Shouting Ed can trade the Tri- umph to the City, of Pasadena and only owe them $50. Nice pit, tough-dolly, etc."

Pretty Turned, Poor Pays
"Oh, I can't stand pain," said Kelley's date, blushing brightly. "Sure you can, lover," said the Pope, and proceeded to grind out a cigarette butt on her dainty palm. Her first swing decked McNicla V, and as he was tak- ing a nine-count, her dainty size lines blessed the papal posse. His ingenuity when she grabbed the bookend. Conover Commences Confusion
In the usual "Who's doing what?" monte, this commu- nicate verbatim: "Discovery Field Blair, Bier in Hil, Hinckes, Con- test. Don't print H. Allen Blit." Degenerates Deposit Demurrals
The dread lady Buntin Mob struck Fleming late one night, and left three real genuine stuffed dumplings, offices of range, pheasants. The FBI knows who they're after and what (why certain acts of randomness) but one question remains un- answered—who gives a damn.

Dabney Doting Depressing
"Hey, you know that crazy fiancé? He ate a whole bowl full of sugar at Bob's the other night—What a crazy guy!"

Interview Schedule

Thursday, Fri., 17, 18—BS, MS, Ph.D., Professor of Mechanical Engineering; Ed%%%T. Crowell.
Fri., 18—BS, MS/EE, ME, Ph. Airborne Instruments Labora- %##%tory, Inc.—New York, N. Y.
Fri., 18—BS, MS/Ch, ME, General Chemical Division—Al- %##%lco Chemical & E company.
Fri., 18—BS/EE, ME Gillibian %#Brothers, Inc.
Ph: EE, MS/EE, ME, Ph. Inter- %##%State Electronics—Anahiem.
Mon., 21—BS, MS, PhD/ME, KE, etc., Air Force Flight Test Center—Edwards Air Force Base.
Mon., 21—BS, MS/Ch, ME, CE, ME, Ph. Lindes Air Products.
Mon., Tues., 22—BS, MS, Ph.D./EE, ME, Ph. MisLincoln Laboratory.
Mon., Tues., Weds., Thurs., 21—BS, MS, Ph.D/Ch, ME, Ph. MisLincoln Laboratory.

State
KS, Liv: 663

Colorado

"Silent World"

Colorado

"Westward Ho the Wagons"

"Disneyland, U.S.A."

Uptown

"Tea and Sympathy"

and Zarah

United Artists

Rodgers and Hammerstein's "Oklahoma"

Page Three

ELECTRICAL AND MECHANICAL ENGINEERS PHYSICISTS — METALLURGISTS

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CAMPUS INTERVIEWS — January 31 — February 1


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STATE
KS, Liv: 663

Colorado

"Silent World"

Colorado

"Westward Ho the Wagons"

"Disneyland, U.S.A."

Uptown

"Tea and Sympathy"

and Zarah

United Artists

Rodgers and Hammerstein's "Oklahoma"

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for Students for Bachelor Degrees in

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Allied Chemical & Dye Corporation

T. W. G. Jan: 8, 1976

GENERAL CHEMICAL DIVISION

ALLIED CHEMICAL & DYE CORPORATION

All counter West, New York
The Sports Corner
by Dick Van Kirk

Usually the remarks in the column are addressed to the entire student body and any other interested readers. This week, however, I am writing for that relatively small group of students who watched the Caltech-Oxy game last weekend. It was the game that showed that hard work does pay off, slowly but surely. The Caltech team played much better basketball in the second half of the game than in any previous game this season. The team still has a long way to go to achieve real respectability as a basketball team, but I feel certain that before the season is over all the work on the part of the Caltech coaches will have resulted in a winning team.

Outmanned Beavers find thirtieth loss at Occidental

Occidental's Tigers flew to first conference victory of the season last Friday night and in doing so, undermined the Caltech team, 61-43, in the tiny Occidental gym. The loss, which was Caltech's 16th of the season, extended the losers' streak to five consecutive losses over three seasons.

After an even start Oxy broke through for several baskets in a row and the score mounted to 26 before the Beavers picked up their re- covered and held the lead back to 31-17 at the half. In the first minute of the second half, the Beavers scored a flurry of points which brought them to within eight points of the Tigers and woke some life in the Caltech rostering section, but the Oxy team staved off the rally and scored enough to maintain their lead.

High man for the Beavers was again sophomore center Larry Kraus, with ten counters. One of the bright spots of the general unhappy was Ray Magdaleno's hustling floor play. Sonny Nelson, the big question mark in Beaver hopes, saw little action and was clearly hampered by his injured knee.

The Caltech frosh also dropped their contest with the Occidental yearlings by a final score of 76-62.

Tech plays UR; Nazarene next

Coach Carl Shy's varsity basketball team faces a pair of tough opponents in the next week as the Beavers travel to Redlands for a conference game Saturday and host Pasadena Nazarene Tuesday afternoon.

Redlands, defending co-champs in the SCC, has a 3-0 record in conference play. The Beavers, on the other hand, have lost to both UC-Irvine and Cal State-Northridge and are 1-2 in conference play.

The Nazarene team features 5'10" guard Mike Buena, who scored 28 points in the Beavers' 86-61 home victory over the Nazarene team in 1955.

HOWARD BLOOMBERG, senior forward and anchoring against Chapman, will see action for Caltech against Redlands Saturday as the Beavers attempt to snap their losing streak. (Photo by Randall Schmeltz.)

A Campus-to-Career Case History

Meet an Assistant Manager—Hampden-Sydney, '53

Frank Hoffman is Assistant Manager of the telephone office at Newport News, Va. Frank's office has about 25,000 accounts and handles $360,000 worth of business a month.

He joined the telephone company in 1953, only three years ago.

"My wife worked there first," says Frank. "While I was still in college. What she told me along with what I learned from friends in the business, pretty well sold me on the telephone company as a place to find a career. And the interview clinched it. The job opportunities were good to refine."

"I began in the Commercial Department, which takes care of business contacts with customers. The training was continuous and excellent. One of the most rewarding jobs I had was working on revenue studies involving estimates of population and telephone growth. This experience is really useful in my present position as Assistant Manager."

"I supervise the personnel who handle customer contacts. And I assist in the handling of our public relations work in the community. In the Manager's absence, I take over.

"It's a great job, full of opportunities and satisfaction, I like working with people, and I like to see my work contributing to the betterment of the community and the company. Choosing a career in the telephone business was the best move I've ever made."

Frank Hoffman chose a career with The Chesapeake and Potomac Telephone Company of Virginia. Interesting career opportunities exist in other Bell Telephone Companies, Bell Telephone Laboratories, Bell Western Electric and Southwestern. Your placement officer has more information about them.
Sagehens hand Beavers second conference loss

Caltech's varsity basketball team absorbed its thirty-first consecutive loss Tuesday, dropping a 61-34 decision to the Pomona-Claremont Sagehens on the visitors' court. The loss was Caltech's second in two SCIAC contests this season, and resulted from the Sagehens' 22-point lead early in the second half.

Close third quarter

The third quarter was an especially close one; with both teams matching Caltech's first half total of 13 points. The Beavers found the range on free throws in the second half, and Jim Walsh's driving tactics drew repetitive fouls from the Sagehens. Kraus helped Caltech by controlling the rebounding efforts of the Sagehens.

Kraus leads scorers

Ron Zumbro, Sagehens' scoring ace, was held to ten points by the Beavers' defensive work, but was still high point man in the well-balanced Pomona-Claremont attack. Dick Parich and Mike Gray scored eight each for the Sagehens. Walsh was second high for Caltech with six points.

BOX SCORE

<table>
<thead>
<tr>
<th>Player</th>
<th>Pomona-Claremont</th>
<th>Caltech</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gray, f</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>Stutman, f</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Parich, f</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Smithwick, f</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Nichols, f</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Mooney, f</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Zumbro, g</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Jones, g</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>20</td>
<td>16</td>
</tr>
</tbody>
</table>

Halftime score, Pomona-Claremont 28, Caltech 13.

FASHION

"Paris has necklines on sideways. New York has the waist shoulder-high. There's nothing like fashion to cool off your passion!"

He laughed..."...till he thought he would die"

P.S. Male knex in Bermuda shorts can be pretty funny too!

Foul or slender, either slater, if you like your pleasure BIG, enjoy the real full flavor, the real satisfaction of a Chesterfield. Packed more smoothly by Aeroseal, it's the smoothest tasting smoke today.

Smoke for real...smoke Chesterfield

Smoke for real...smoke Chesterfield

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in engineering, physics or mathematics. Work on original research at MIT Lincoln Laboratory and at the same time can earn advanced degrees. Current projects include:

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- DSR, guided early warning
- SCATTER COMMUNICATIONS
- TRANSORDERED -- DIGITAL COMPUTERS
- MEMORY DEVICES
- PVT SAGE
- VODA'S

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Sticklers!

WHAT IS A JOSTLED POST?

WHAT IS A MAN WHO WON'T USE ANYTHING BUT A MATCH AT LIGHT-UP TIME?

WHAT ARE SMOOKY BROWNIES?

WHAT IS THE MAN WHO NEEDS THE BOAT?

WHAT IS HUNGRY FOR A BROWNIE?

WHAT IS CRAZY MIST?

WHAT IS A MAN WHO STEALS GLASSHEETS?

WHAT IS A NEW ENGLAND LOVE BOY?

DON'T JUST STAND THERE...

STICKLE! MAKE '25

Sticklers are simple riddles with two-word rhyming answers. Both words must have the same number of syllables. (No drawings, please.) We'll shell out $25 for all we use and for hundreds that never see print. So send, along with your name, address, college and class to Harpoz-Joo-Lucky, Box 67A, Mount Vernon, N. Y.

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"IT'S TOASTED" TO TASTE BETTER -- CLEANER, FRESHER, SMOOTHER!

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Satellite essay contest offers $5,000 first prize money

Seniors and graduate students may win as much as $5,000 by entering the Vanguard Satellite Essay Contest, which requires 1,000 to 2,000 words on some problem concerning the design, manufacture, or use of orbiting satellites.

The contest, which closes March 1, will also give prizes of $2,200, $1,000, and seven honorable mentions of $500 each. Both technical and non-technical presentations will be equally acceptable. The Martin Company of Baltimore, the sponsors of the contest, will not furnish source material. Winners will be announced on July 1, the first day of the International Geophysical Year.

Additional information and entry blanks may be obtained from Dean Bohmkenblust or Dean Eaton.

Freshmen conduct class nominations

Nominations for freshman class officers were held today in Cullenbon. After qualifications were undetermined and the nominations themselves opened, surprises might occur. This week's campaigning will continue with elections taking place next Thursday by ballot. The newly elected officers will serve the remainder of the school year, at which time they will be held for sophomore officers.

Barns, nurses on social programs

The popularity of barn dances and nurse dances with the men of Tech is attested to by the two barn dances and three exchange dances with nurses homes scheduled this weekend by the five student houses.

Saturday, Fleming and Thropp will cooperate to hold a barn dance at Sunland Park. Ricketts and Dalney will also hold a barn dance, at Mountain Oaks in Le Canada.

Farrago is out

Farrago, Tech's humor magazine, is out after many trials and tribulations. The magazine makes its belated appearance featuring an excellent story by Tony Demetraces called "Success Story" and a humorous apology by editor John Velman for bringing out the magazine a month late.

What young people are doing at General Electric

Young engineer pioneers new ways to use x-ray

A new x-ray inspection system which intensifies an x-ray image more than 10,000 times in brightness and transmits it to a conventional TV screen has been developed recently by General Electric. When perfected, it may enable medical specialists to perform "long-distance" diagnosis on patients in remote areas.

One of the principal men who developed x-ray television — called TVX for short — is Dr. John E. Jacobs, Manager of the Advanced Development Laboratory of General Electric's X-Ray Department in Milwaukee, Wisconsin.

Jacobs' Work is Important, Responsible

As an electronics specialist, Dr. Jacobs' work in the past has been devoted to the study of photoconductors — substances whose properties change under the influence of radiation — and the use of x-ray in industrial inspection. His present work is conducted at Northwestern in vacuum-tube networks, and has recently been named McKay Visiting Professor for 1957 by the University of California at Berkeley, where he will give a two-week series of lectures on photoconductors.

27,000 College Graduates at General Electric

Since his youth, when he was a licensed radio ham, John Jacobs has been devoted to the study of electronics and x-rays. Like each of our 27,000 college graduates, he is being given the chance to grow and realize his full potential. For General Electric has long believed this; when fresh young minds are given the freedom to develop, everybody benefits — the individual, the Company, and the country.

Educational Relations, General Electric Company, Schenectady, 5, New York

Seniors and Graduate Students in Engineering, Physics and Mathematics

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Find out about the interesting positions, assistance in furthering your education and outstanding promotion opportunities with the world's largest manufacturer of aircraft and missiles. Get facts on living conditions, research facilities and opportunities to advance professionally at the various Douglas locations.

Reserve your career decision until you have talked with the Douglas representative. It may be the most important interview of your life.

SEE YOUR DIRECTOR OF PLACEMENT FOR YOUR INTERVIEW APPOINTMENT.

Dr. John E. Jacobs joined General Electric full-time in 1955, after receiving his B.S. in electrical engineering in '54, his M.S. in '56, and his Ph.D. in '58, all at Northwestern Univ. He served in the Navy in World War II, and worked part time at General Electric while in college.

INTERVIEWS
CH, PH, BS, MS/ME, ER, TV, CH, AC, PH, ME, EEE for Summer Minnesota Mining & Manufacturing Company, St. Paul or Southern California

Wed., Thurs. 27, 24—BS, MS, PhD/PhD, CH, BS, MS/EE, MS/PhD/PhD Standard Oil Company of California & California Republic

Wed., Thurs. Fri., 23, 24, 25—BS, MS, PhD/PhD, CH, CE, EE, ME, (Continued from page 8)

Ma, Ph, Tv/Ph, CE, EE, ME, Ma, Ph Douglas Aircraft Company, Inc. Recruiting for all Douglas Divisions.

Thurs. 24—BS/ME, AC, CH, CE Ingersoll-Rand Company.

Thurs. Fri., 25—BS, MS, PhD/EE, ME, Ph, Ma International Business Machines.

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