RUNNING on a fixed schedule, the 1946 frosh tech men were not to become finished engineers and scientists in four years. However, Dean Winchester Jones at the Saturday evening session relieved the not-so-young hopefuls of some of the burdens they were acquiring, by reminding humorously of the theorist reputation accorded C. I. T. graduates by some outside the Tech family.

Given a picture of the present Institute by short, orienting talks on activities and the responsibilities of the class to the undergraduate program during the various lecture sessions, the new students also acquired something of the background of the California Institute which was outlined by Dr. Robert A. Millikan Friday night. Telling most of the story of the early days, the visionary but practical Amos Throop, George Hale, Henry Robinson, and others, Dr. Millikan explained the changed needs and names of the Institute’s predecessors, largely omitted his great part in the phenomenal growth of C. I. T., but imbued the frosh with some of the spirit, made them realize that they, too, were pioneers.

President DuBridge the next evening sketched the future, listed developments the incoming class could hope to see, would probably take active part in. Expansion of the faculty, development of the overcrowded engineering departments, and a new student center foreseen in Tournament Park, were pictured as directions for the Institute’s continued growth.

The almost 20 faculty members present were introduced Friday night. Saturday morning professor Pickering, in charge of the meeting, turned the procedure over to Lang Hedrick, A. S. B. president, who presented an equal number of student leaders. Lang also reminded the frosh that they were responsible this year for building the school they would attend for the following three years. Offering them promise of immediate participation, he noted that there were only two posts in the A.S.B. government not open to freshmen.

Consolidated Engineering Society, the new focal point of the Institute’s five student engineering groups, was explained by Peter Kyropoulos of the mechanical engineering department. The new organization will try to give all students, frosh especially, a general, well-rounded picture of the engineering profession through talks by leaders in the various branches of engineering, while the five societies will retain their separate entities and hold meetings of a more technical nature.
Wesley Hershey, Y.M.C.A. secretary, explained the functions of the "Y," told of the book exchange, loan fund, and promised forum groups and luncheon meetings throughout the year.

Highlight of Saturday's morning program was a seminar on "How to Study," conducted by Dean Strong with considerable participation from other faculty members and students. The goal was put at concentration and analytical thinking; the method, to read once over quickly, then to start to learn the details step by step. The importance of scheduling time was emphasized and re-emphasized.

Doctor Lindvall took the lead in explaining the newly reinstated honor system to the students in the afteroom session, followed by Don Mon, president of Ricketts and secretary of the Beavers, who gave details and examples.

A talk entitled "Relax, Relax," outlined Dr. Sorenson's views on extra-curricular activities, and an informal view on the honor system.

Last in the series of meetings which took up one-third of the freshmen's waking hours, was chapel Sunday morning, followed by a talk by Dr. Sterling. "Y" secretary Hershey told of the "Walking Dead" in chapel, insisting that facts alone are not enough; a system of values is essential.

Doctor Sterling, final speaker, explained how an engineer or a scientist could become an effective citizen. The question, as he saw it, is one of security versus liberty, and the student's duty that of being able to evaluate the situation.

Recreation was abundant at Radford, gave freshmen a chance to meet each other and stay warm in the rather chilly fall weather, which produced much speculation on the advisability of draining car radiators, blanket borrowing from a stock wisely provided by camp planners, rearranging of bed clothes to produce maximum warmth from minimum supplies, and extreme envy of those possessing sleeping bags by those equipped only with blankets. Touch football was played religiously by members of the football squad who had promised to make up for missing a weekend's practice. Volleyball competition slackened only when light showers or mess calls offered hazards or

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**MICROBURET DEVELOPED BY INSTITUTE CHEMISTS**

A DURABLE syringe-type microburet for measuring minute volumes of liquids was developed by Institute chemists during the war; one result of a research program sponsored by the Office of Scientific Research and Development to find suitable apparatus for laboratory and field analysis of chemical warfare agents.

The apparatus consists of a syringe holder equipped with a precision micrometer movement. A glass hypodermic syringe is clamped in the holder, and fluids are discharged by turning a graduated micrometer knob. The maximum delivery of the instrument is approximately two cubic centimeters. The volume may be read to one microliter, and selected syringes afford a precision of one- or two-tenths per cent.

**WOMEN WIN THROOP CLUB TIFF**

AT A MEETING early in October, the men of Throop Club decided that a woman's membership in Throop Club Wives, the auxiliary organization, did not obligate her husband to be a member of Throop Club. This settled, the next decision for the men is that of choosing between samples of upholstery fabric collected by the women preparatory to re-covering the Club's furniture.

**CORRECTION**

IT WAS stated in the August issue of Engineering and Science that "Russel J. Love Heads Research Committee." Mr. Love wishes to correct this statement. The actual head of the Pressure Vessel Research Committee is Mr. Walter Samans of the Sun Oil Company, chairman. Mr. Love is secretary of the committee, and in charge of the office.

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