Adrienne & Frothingham Will Sing At I.F.C. Dance

Punch Parties, 5:15 Gadget Carnival
On Sat. Will Wind Up Gala Week
Simmons Coed Pies Door Prizes

The sale of redemptions for Senior Week will continue during the early part of April. said Roy. Tyree. 43. chairman of the Senior Week Committee. This committee has been working hard in order to make the R.O.T.C. checks. interested. If you have a wish to redeem your R.O.T.C. checks, be sure to get them in order to redeem them as purchased as scheduled later in the week.

Junior Class Social Program Is Widely Discussed At Meeting

The necessity for correct emotional preparation to married life will be the subject of the second lecture in the spring series of talks. "In Preparation of Marriage" will be given this afternoon at 4:00 and 5:00 p.m. in Kent Hall. "A sound marriage needs a sound body, a sound mind, and sound soul. This is one of the most important postulates to be followed: preparation for a truly compatible marriage. Professor Magoun said last evening. The professor further stated that marriage will only be successful for whom they work. In general, "that cutie who works over in Building 10 will be regarded as insufficient identification. The winner's pictures will be featured in the May issue of Vu, providing the young ladies consent to this publicity.

Dr. Rabinowitch's Photo-Electric Cell Suggests Solution To Photosynthesis

Photosynthesis, the process by which solar energy is converted into chemical energy, and whose unique demonstration lies in the wondrous properties of chlorophyll, has for ages prodded scientists into its explanation. When, over a hundred years ago, the Becquerel cell, the first cell which was devised to produce an electric current with the aid of light, was invented, no one knew how it worked. Later, scientists stumbled upon the photoelectric properties of selenium. "Camel layer" cells, and thus invented the widely used photovoltaic cells, the essential process was still a mystery.

Secret is Revealed

In an M.I.T. laboratory not long ago, however, another cell was constructed in which light is converted into electrical power. But this time it was discovered how and why. The name of the discoverer is Dr. Robert J. Schaefer.

Physical-chemist Rabinowitch, long acquainted with the photoelectric wonders of selenium, set out on his study with two purposes: the first was to devise a cell which, at expense of light energy a chemical reaction could be made to run "uphill." He then wanted to use this shift of chemical equilibrium for the production of an electric current. His main problem was to find an organic dye which would reverse one natural direction of combustion processes on other catalysis.

Organic Dyes Respond

A purple dye called thionine appeared to be the answer. It was discovered that the ferrous ions in a solution of thionine and ferrous sulfate will under the influence of light, be oxidized to ferric ions, while the iodine is correspondingly reduced to iodide. Without the action of light, however, the action is reversed, thus creating an electrochemical force. These conclusions gave Rabinowitch the clue to the problem.

The cell consist of a single container, one half of which is exposed to the light and the other to darkness. The dye is placed in the cell, and according to the conditions of the experiment, a current is produced. The "catalyst" is then added, and the cell is placed in the dark. The cell is then re-exposed to light, and the reaction is reversed, thus creating a current.

NOMINEES FOR CLASS OFFICERS

Class of 1942
Permanent President
Albert F. Clear
Vice-President
Joseph T. Cze
Secretary-Treasurer
Francis R. Behrly
Class Day Marshals
S. Richard Childerdorge
John W. McDonough, Jr.
Class of 1943
President
Sid F. Atlas
Vice-President
John W. McDonald, Jr.
Secretary-Treasurer
George C. Markas
Institute Committee
Henry M. Tiedemann (2 to be elected)
Class of 1944
President
James A. Malloch
Vice-President
Robert J. Schaefer
Secretary-Treasurer
John A. White
Institute Committee
Robert S. Reebie (2 to be elected)
Class President
Robert V. Colman
Vice-President
Robert A. Plache
Secretary-Kenneth M. Rohrer
Institute Committee
George S. Deve (2 to be elected)

Branch College of 1943
President
George Ziegler
Vice-President
Carl S. Taft
Secretary
Willard S. Little
Institute Committee
Edward P. Radford, Jr. (2 to be elected)

Branch College of 1944
President
Robert E. Knapp
Vice-President
Malcolm G. Klipert
Secretary-Kenneth M. Rohrer
Institute Committee
Robert C. Bosch (2 to be elected)


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