Du Pont Exhibit Fills Fair's Chemistry Gap

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Once Over Lightly

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By Mary Hornaday Staff Correspondent of
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New York

Despite the emphasis on the sciences at the New York World's Fair, chemistry has been passed over lightly.

This situation will be remedied somewhat when the permanent science museum is opened at Flushing Meadow next summer. But in the meantime, the chemist or would-be chemist will be interested in the du Pont pavilion.

Here a presentation called "Wonderful World of Chemistry" will be presented 40 times daily.

for a few moments in freon at the top liquid. about 50 degrees F. below zero. The flower freezes instantly. The flower is removed ters like glass.

Color Changes

flask containing a clear liquid changes to a deep blue color when the flask is shaken. This blue color slowly changes back into a clear solution again, simply by shaking the flask.



Monorail

Monorail cars such as this will offer a view of the New York World's Fair lake amusement area.

Where the two liquids meet, It will include a score of polymerization occurs and pure chemistry demonstrations, in- nylon is produced. This film cluding the freezing of a of nylon can be lifted out of flower in freon. In this demon- the liquids by wearing rubber stration a live flower is dipped gloves and reaching through

Quick Jell

This process is continuous from the freon and when and a cord of nylon can be struck on a table top, it shat- drawn from this container until one of the liquids is depleted.

Conductive paint: A tape re-Disappearing blue: A large corder is separated from its speaker by a panel of transparent plastic sheet so that, although the tape recorder is mechanically operating, no known Hindu rope trick can sound comes out of the speaker be reconstructed by attaching since it is not electrically con- the Stren to a piece of manila nected. An aerosol dispenser rope and using it to lift the Instant nylon: A large con- containing a paint which con- rope. It hovers in midair as tainer contains two liquids, one ducts electricity is used to though unsupported. of them floating on the other, spray two "wires" leading from

speaker. Completion of the secnects the speaker and it begins ered with Mylar and Butacite; ond "wire" electrically con-

feet long and four inches in diameter is partly filled with a thick liquid, Balymal. This substance is thixotropic, that is it becomes liquid when shaken. The liquid jells, or becomes firm, in about 10 seconds. If the cylinder is held vertically with the liquid Baymal at the bottom, in 10 seconds it can be turned over so that the Baymal stays at the top. The Baymal can be liquefied by simply shaking the tube. Then it will jell again. This can be done again and again.

Bounce Cushioned

Tipersul: A performer lays a piece of one-eighth inch Tipersul on his open palm and an assistant places a red-hot bolt on the Tipersul. This thin sheet protects his hand completely and the performer shows the high temperature of the bolt by dropping it on a piece of wood which catches fire.

Hindu rope trick: This demonstration features Stren, a nylon fishing line. It is so fine and transparent that the well-

Mylar and Butacite drum:

the tape recorder to the Two drums, about three feet in arc up to a foot long is gendiameter, have their ends covrespectively. A heavy solid Lu-Baymal: A tube about three cite bowling ball is dropped to the plastic sheets from a height of about three feet. Upon striking the Mylar, the ball rebounds sharply. The Butacite drum, however, cushions the lating ability of the Mylar. As blow, and the rebound of the ball is substantially less.

Jacob's ladder: A 50,000-volt generated.

erated between two vertical rods in the form of a "V." A piece of wood placed in the gap catches fire immediately because of the intensity of the arc. A sheet of Mylar is then placed in the gap. The power is turned on, but the arc does not strike due to the high insusoon as the Mylar sheet is removed, the arc is immediately

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