

Town Hall Calendar Features 12 Programs

Mona Paulee, Mezzo-Soprano Will Appear on Town Hall

After only three seasons as an artist of the Metropolitan Opera Association, lovely Mezzo-Soprano Mona Paulee, appearing on Town Hall, November 22, has become one of the most valuable members of that famous company.

Born in Alberta, Canada, Miss Paulee's family moved to Portland, Oregon when she was four years old. In Portland, Mona attended school, took piano lessons and led the life of any other small girl of comfortably established parents—until she was ten. And then, her father purchased a moving picture theatre and Mona became the best informed child in Portland on Hollywood's output of the late twenties.

In the pre-talkie days some slides of current hits were flashed on the screen for the audience to sing. The public was reluctant but 10-year-old Mona was not. Standing in the darkness of the pit next to the organist she sang lustily and to this day can run through the sentimental lyrics of former favorites like "Charmaine" and

"Diane" without missing a word. Mona's family was unimpressed with her talents as a singer and she herself did not consider her voice seriously—singing was simply something that she enjoyed doing . . . until one night when with some of her "teen-age" friends, she attended a picture show in another Portland theatre. The manager, to enliven the evening, was sponsoring an amateur singing contest with a prize of ten dollars. (See PAULEE, Page 4)



Mona Paulee

Donald Dickson is One of America's Popular Baritones

Donald Dickson, sensational young American baritone, will appear on the Town Hall program, February 20.

Music has been his whole life and today Dickson's name is synonymous with the very best. Sensational and versatile are two adjectives which there can be no doubt as being his.

Married at seventeen, a father at eighteen, he made his debut as symphony soloist at nineteen, his first network broadcast at twenty-one, his first transcontinental con-

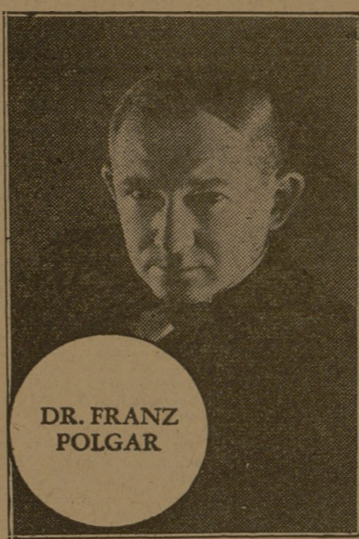


Donald Dickson

cert tour at twenty-three and his Metropolitan Opera debut at twenty-five. Last spring at thirty-one Mr. Dickson made his screen debut in Samuel Goldwyn's technicolor production "Up in Arms".

As versatile as any performer before the public he has sung the melodies of Jerome Kern and "Lieder eines Fahrenden Gesellen" of Mahler with symphony; in opera he has sung the dramatic role of Rigoletto and the modern title role of Garrick in its world premiere. On radio Mr. Dickson has sung everything from Paggiacci to boogie-woogie.

In the amazingly brief period of his career, Donald Dickson has become one of the most popular attractions today.



DR. FRANZ POLGAR

Town Hall Presents Dr. Franz Polgar, Famous Hypnotist

Dr. Franz J. Polgar was the surprise star of the 1945 Town Hall program.

Dr. Polgar, who is a world famous hypnotist, mental telepathists and memory feat exponent, returns to Town Hall on January 15 by popular request.

His "Miracles of the Mind" show has won him a reputation as one of the most perplexing personalities of our time. His performances are always the subject of much discussion and controversy. Spectators with the "show me" attitude marvel at Dr. Polgar's performances.

Give Dr. Polgar a book or a magazine for a few minutes to look over and he will repeat it verbatim seconds later.

Those who saw Polgar in 1945 will not miss seeing him again and those who are fortunate enough to see him perform in January will never forget it.

Town Hall tickets are still available for students for the 1946-47 school year at the Student Activities Office in the Administration Building, from the first sergeants in ROTC units or through the house masters in veterans' dormitories.

Whittemore-Lowe, Duo-Pianists, Will Appear November 6

Two ex-GIs with no reconversion problem are Arthur Whittemore and Jack Lowe, gifted young duo-pianists, who will be heard at the November 6 Town Hall program.

Released from the Navy after three and a half years' service on January 6, Whittemore and Lowe spent the next three weeks arranging and recording for Victor eight numbers for the first album ever to be made by two pianos with orchestra of danceable music; then they embarked on a concert tour. Young and personable, Whit-



Whittemore and Lowe

more and Lowe have a bobby-sox following that a Sinatra might envy. But it is not only with the younger feminine element that the duo-pianists are a success. During their Navy period, in addition to their regular blue jacket duties, they gave more than 500 concerts before half a million service personnel here and in the Pacific—at one time they played 241 performances in more than 40 Army, Navy and Marine hospitals in 88 days, a concert record that may stand for all time. The first Navy men to entertain officially in the Pacific, they were credited with being the most popular artists wearing the uniform of their service, are about to receive a certi-

(See PIANISTS, Page 4)

Patricia Travers, Famous Violinist, Town Hall Feature for January 28

Patricia Travers, outstanding violinist who will appear on Town Hall January 28, has been soloist with practically all of the major symphony orchestras in this country. Miss Travers has given recitals from coast to coast in innumerable cities.

Besides her concert and orchestral activities, Miss Travers spent eight weeks in Hollywood when she made her first moving picture for Paramount entitled: "There's Magic in Music".

She has played for service men at the New York Stage Door Canteen, at the Philadelphia Naval Hospital and at many local bases and hospitals while on tour. In the last two successive seasons, the violinist has appeared seven times with the Philadelphia Orchestra, one appearance being a radio broadcast.

Miss Travers was born in Allwood, Clifton, New Jersey. She started the study of violin at the age of four. For three years she worked with Jacques Gordon of the Gordon String Quartet, and then with Hans Letz of the Juillard Graduate School of Music in New York. Her first public concert was at the age of six at Music Mountain, Connecticut. At nine her formal debut on the Ford Sunday Evening Hour with the Detroit Symphony established Miss Travers as an artist of the highest rank. At ten she appeared with the New York Philharmonic Symphony for the first time.



Miss Patricia Travers



MAYBE YOU NEED A PIANO LESSON

When you look inside a piano you see a harp-shaped metal plate on which the strings are strung. Even in a spinet it ordinarily weighs well over 100 pounds.

"Too heavy!" thought Winter & Company, who make pianos. (If you've ever moved a piano, you'll agree.) "Let's have Alcoa make an aluminum plate."

So, Winter's piano designers and Alcoa engineers put their combined experiences together to develop an aluminum plate. First, a strong aluminum alloy had to be found because the strings put an 18-ton pull on the plate. A special alloy was produced, but . . .

As the strings don't pull in the same direction or with the same force, in time the plate would creep, cause distortion, and the strings get out of tune.

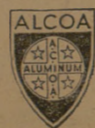
Alcoa engineers found a way to tell exactly

where and how great the strains were . . . figured out how to balance the stresses and then stabilize the plate by an Alcoa-developed heat-treating process.

The result: The first successful aluminum piano plate, weighing only 45 pounds instead of 125, with tone quality enhanced.

That piano plate offers this lesson for young engineers to remember when they step from college into industry: Take a look at aluminum—with Alcoa engineers at your side—when you want strength with lightness in anything you are designing. Ideas click when men with imagination plus engineering—"Imagining" as we like to call it at Alcoa—work with this versatile metal and with the greatest fund of aluminum knowledge in the world—Alcoa's. ALUMINUM COMPANY OF AMERICA, Gulf Building, Pittsburgh 19, Pennsylvania.

ALCOA FIRST IN ALUMINUM



Du Pont Digest

Items of Interest in the Fields of Chemistry, Engineering, Physics, and Biology

New Plastic Resists Heat, Acids, Electricity

"Teflon," Product of Group Research, is Solving Difficult Problems in Radar, Television and Industry

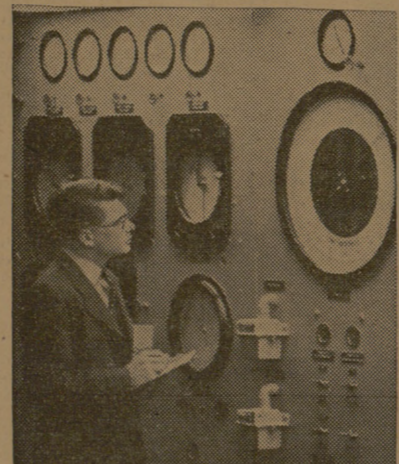
A group of Du Pont research men were looking for a new refrigerant of a particular type. These men found what they were after; but, as so often has been the case, they found something more—this time an industrial plastic whose unique qualities make it invaluable in many fields.

During the study, the chemist in charge proposed a route to the synthesis of HCF₂CF₂Cl via tetrafluoroethylene, CF₂=CF₂. In working with the latter, a chemically reactive gas boiling at -76.3C./760 mm., it was learned that it polymerized to form a resin having unusual properties.

After evaluation by organic and physical chemists, physicists and electrical experts, a suitable process for the difficult manufacture of this product was worked out by the chemists in collaboration with chemical and mechanical engineers.

Structure and Properties

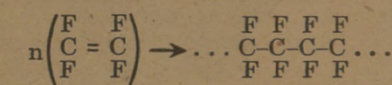
"Teflon" is made by polymerizing gaseous tetrafluoroethylene to give a solid, granular polymer:



Controlled at this one panel is all the equipment for producing the polymer from which is made "Teflon."



"Teflon" (right) resists boiling acids and solvents to a degree unrivaled by other plastics.



The fluorine atoms in the molecule impart exceptional properties of resistance to heat and chemicals.

"Teflon" has unusual heat resistance. Having no true melting point, "Teflon" decomposes slowly to give the gaseous monomer and a few other gaseous fluorine derivatives at around 400°C. Under certain conditions small amounts of fluorine-containing gases have been observed at temperatures above 230°C. Because of its heat resistance, gaskets and wire insulation for jet engines are now made of this plastic. It is also used in aircraft ignition systems near sparkplugs and in high-temperature heating systems.

The chemical resistance of "Teflon" is such that it withstands the attack of all materials except molten alkali metals. Boiling in acid (aqua regia, hydrofluoric acid or fuming nitric acid) will not change its weight

or properties. For this reason it may have wide use in such applications as tubing and piping for chemical plants and acid-distillation equipment.

Because the dielectric loss factor is extremely low, even at frequencies up to 3000 megacycles, it is an excellent insulating material for currents of ultra-high frequency. Its heat-resisting and aging qualities suggest immediate uses as a dielectric in coaxial cables for color television, and in radar and power fields.

Forms of "Teflon" Available

By use of special techniques the new plastic can be extruded as rods, tubes or wire coating. In general, its extrusion rates are low in comparison to other thermoplastics because of its resistance to softening.

More facts about "Teflon" are in Du Pont Plastics Technical Service Bulletin No. 13. Send your request to 2521 Nemours Bldg. Wilmington 98, Del. "Teflon" is one of the many products which represent the work and skill of Du Pont men, who, working as a team, contribute toward a better America for you and all of us.

Questions College Men ask about working with Du Pont "WILL I STAY IN ONE FIELD AT DU PONT?"

The first position of a new man at Du Pont is based on his expressed preference and an estimate of his aptitudes and abilities. Subsequent work may be in the same or other fields, as openings present themselves in research, production or sales divisions. Keynote of Du Pont personnel policy is promotion from within on a competitive merit basis.



BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY E. I. DU PONT DE NEMOURS & CO. (INC.) WILMINGTON 98, DELAWARE

More facts about Du Pont—Listen to "Cavalcade of America," Mondays, 7 P. M. CST, on NBC