

**DR. EDITH A. TURI HONORED
AS 1985 METTLER AWARD RECIPIENT**



Dr. Edith A. Turi of Allied Corporation was the winner of the 1985 Mettler Award in Thermal Analysis. It was presented to her on September 17, 1985 in San Francisco, California, at the 14th annual North American Thermal Analysis Society (NATAS) Conference.

The award is sponsored by Mettler Instrument Corporation to recognize and encourage individual achievement in the field of thermal analysis. The Mettler Award, which includes a \$1000 honorarium together with a certificate and gold pin, has been given annually since 1968. The Awards Committee of NATAS selects the winner from a roster of candidates nominated by the international scientific community.

Dr. Turi is Special Projects Manager at Allied's Corporate Technology Center in Morristown, New Jersey and is Adjunct Professor at the Polytechnic Institute of

New York. Her main research field is the characterization of materials and the evaluation of the major parameters affecting their stability and processability.

Dr. Turi has published extensively on various aspects of thermal analysis and its applications, and holds 15 U.S. and several foreign patents. She is the Regional Editor of the international Journal of Thermal Analysis for the U.S. and Canada and the Editor of the definitive book entitled "Thermal Characterization of Polymeric Materials" which is recognized as a major contribution to the literature on the theory and practice of thermal analysis.

A past president of the North American Thermal Analysis Society (NATAS) and a NATAS Fellow, Dr. Turi's honors also include the NATAS Outstanding Service Award for 1981.

Since 1975, Dr. Turi has served as Director and Principal Lecturer of the annual Conference Courses on "Thermal Analysis in Research and Production" at the Polytechnic Institute of New York and as a guest lecturer at other academic institutions in the U.S. and abroad.

NETZSCH-GEFTA-AWARD 1986 FOR

Dr. rer. nat. habil. Klaus Heide, Jena/GDR

(presented in Freiburg/FRG, April 8, 1986 (GEFTA-STK Symposium))



The nominating committee of the Gesellschaft für Thermische Analyse e.V. (GEFTA) has selected Dr. rer. nat. habil. Klaus Heide (right) Jena/GDR for the NETZSCH-GEFTA-Award 1986.

Mr. Klaus Heide was born in 1938 in Bad Salzuffen/Teutoburger Wald; childhood and youth he spent in Jena where his father worked as professor of mineralogy for many decades. After his school-leaving exam in 1956, Mr. Heide registered in Jena to study mineralogy and completed university education with the diploma examination. His diploma work dealt with the application of DTA to characterize salt minerals. At this time thermal analysis methods were not wide spread in the GDR. Mr. Heide started operating at that time the first instrument at the Mineralogical Institute.

During prolonged studies in the Soviet Union Mr. Heide became also familiar with geochronology and geochemistry; these fields of activity, at that time, particularly attracted him.

Thermal analysis, however, considering the technical and material limits of the Institute for Mineralogy in Jena, regained its importance for his own work quickly. First generally as method for phase analysis of salt minerals and rocks, supplementing radiographic, spectroscopic and chemical studies.

In the dissertation (Thermal Decomposition of Crystal Hydrates) the feasibility of obtaining structural data from thermal decomposition measurements was checked.

During postdoctoral work he turned to the question of a quantitative description of dynamic processes. For this not only an essential deepening of physical and mathematical principles became necessary but also an extension of measuring methods with mass spectrometry and NMR.

Important for the scientific career of Dr. Heide were the numerous scientific contacts, which resulted in a number of long-standing, personal friendships. Periods of study in Moscow at the Kurnakow Institute, in the Institute of Prof. Nikolajew in Novosibirsk, stays in Budapest with the brothers Drs. Paulik, in Prague, in Bratislava, and also in Greifensee/Switzerland and the Max-Planck-Institute for Solid State Research in Stuttgart were essential for these contacts.

Increasing responsibility for teaching and the education of students, students taking their diploma, and graduate students studying for their doctorate (up to now 29 students for diploma, 8 for their doctorate) as well as scientific co-operation with the theoretical physicists of the physics section, the computer center and the academic institute in Berlin now occupied more and more of his time.

A further essential motivation for Dr. Heide's work came from his contacts to ICTA. With pleasure he recalls that his participation in the 1st ICTA in Aberdeen, where he could participate with a delegation from the GDR thanks to the great personal commitment of Dr. Mackenzie, is unforgettable. The selection of Dr.

Heide onto the standardization committee of ICTA 1968 was the beginning of a continuous collaboration with ICTA. From 1980 to 1984 Dr. Heide was Councillor-at-Large in Council of ICTA.

When in the sixties trend to thermal analysis methods intensified in the GDR it resulted in an increasing demand for an exchange of scientific opinions. Under the chairmanship of Dr. Heide first in the Geological Society of the GDR a study-group developed from which in 1974 the study-group for Thermal Analysis in the Chemical Society of the GDR developed, Dr. Heide is still a committee member today.

At present the main emphasis of Dr. Klaus Heide's research work is the analysis of glass melting processes. This type of problem led, and leads to many direct contacts with partners in industry.

The plenty of problems to be solved here unfortunately at present leaves only a little time to continue the association with medical establishments and the questions of biocrystallization or as a scientific hobby: Meteorite science and formation of natural glasses. Dr. Heide is under further time pressure being publisher of "Chemie der Erde", one of the oldest geological science magazines.

The currently available 91 publications of Dr. Heide include three main areas:

- Phase analysis and thermal stability of inorganic salts, particularly crystal hydrates.
- Kinetics of non-isothermal reactions and development of thermal analysis techniques (particularly temperature microscopy, thermal gas analysis, working out of standard substances).
- Analysis of the melting behaviour of glass quantity and the thermal stability of technical, natural glasses.

Dr. Heide also became renowned through his monography "Dynamic Thermal Analysis Methods", published in 2nd edition in 1982.

Dr. Heide likes to spend the little spare time left from these intensive scientific and professional activities together with his family to visit theatres and concerts and when he feels like doing so he plays the tenor horn, tuba or trombone himself.

The NETZSCH-GEFTA-Award, sponsored by NETZSCH-Gerätebau GmbH, Selb/Bavaria, is awarded annually to a person in recognition of his distinguished record in the scientific field.

Dr. Klaus Heide was presented with the 1986 NETZSCH-GEFTA-Award not only for his outstanding scientific success, but also for his exceptional involvement in this field in both the German-speaking and international areas.

The NETZSCH-GEFTA-Award carried with it an honorarium of DM 3,000.—.
We congratulate Dr. Klaus Heide.