

RENAISSANCE OF THE DISCOVERY OF ISOTOPES

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Ninety years after Soddy won the Nobel prize in chemistry for "his investigations into the origin and nature of isotopes", the quest to expand the nuclear horizon and discover new isotope has regained momentum. After about 10 years of very little progress the discovery rate has increased tremendously during last few years. In 2010 over 100 new isotopes were reported which is the largest number of isotopes discovered in any given year. This increase is primarily due to the beginning of the operation of RIBF at RIKEN and to the technical advances to separate and identify heavy neutron-rich isotopes following uranium fragmentation at GSI.

This latest trend and other interesting statistical data were extracted from a project to document the discovery of all isotopes. This project was recently completed analyzing the over 3000 isotopes presently known isotopes. An overview of the history and present status of the discovery of all presently known isotopes will be presented.

**Nuclear
Seminar**

**All interested
persons are
cordially
invited to
attend.**