Heavy Nuclei and Texas

Robert Alonzo Welch

(1872 - 1952)



The **Welch Foundation**, based in Houston, Texas, is one of the United States' oldest and largest private funding sources for chemistry researchers.

The Robert A. Welch Foundation Conferences Houston, Texas



Albert Ghiorso Glenn Seaborg

Darleane Hoffman

The Robert A. Welch Foundation Conferences in Time

- The Structure of the Nucleus Houston, 1957 (Md-101, 1955). End of the n-β, beginning of the Hot Fusion era
- Transuranium Elements the Mendeleev Centennial Houston, 1969 (Db-105, 1967). End of the Hot Fusion era
- Fifty Years with Transuranium Elements Houston, 1990 (Mt-109, 1982). Cold Fusion era on on the march
- The Transactinide Elements Houston, 1997 (Cn-112, 1996).
 End of the Cold Fusion era, only one new element, with Z=113 in next 20 years

... since 1997

⁴⁸Ca and heavy actinide Warm Fusion era – six new elements with atomic numbers from 113 to 118

and most important:

first human tracks on the shores of the Stability Island



Spring 2015 we are back in Texas

What is next?

Moment of silence to honor our friend

Valery Zagrebaev



Our Special Thanks to International Advisory Committee

S.N. Dmitriev (JINR, Russia)

C.E. Düellmann (GSI, Germany)

S. Gales (GANIL, France)

C.K. Gelbke (FRIB, USA)

J.H. Hamilton (Vanderbilt, USA)

S. Hofmann (GSI, Germany)

D.C. Hofmann (LBNL, USA)

M.G. Itkis (JINR, Russia)

R.V.F. Janssens (ANL, USA)

W. D. Loveland (OSU, USA)

D.J. Morrissey (MSU, USA)

K. Morita (RIKEN, Japan)

G. Müenzenberg (GSI, Germany)

J.B. Natowitz (TAMU, USA)

J.B. Roberto (ORNL, USA)

G. Savard (ANL, USA)

M.A. Stoyer (LLNL, USA)

S.J. Yennello (TAMU, USA)

and finally

Big was born in Texas!

That is why it is not a surprise the we will be discussing about:

Biggest nuclei and Big research planes with Big hopes about Big future