



Ion Petter Omtvedt

on Petter Omtver

Odd Dahl



- Born in 1899, Odd Dahl became one of Norway's most admired scientists
- He did not have any "classical" education as a scientist, but was mostly self educated. In 1922-25 he participated in Roald
- Amundsen's exploration of the arctic. He enrolled as a pilot, but soon showed his talents in a variety of other fields. In his spare time aboard Maud he read physics
- After the Maud-expedition he worked at the Carnegie Institute of Technology in Washington. He stayed in the US for 10 years and came back to Norway as a distinguished and well-known scientist.
- In Norway, he worked at the Christian Michelsen Institute (CMI) in Bergen. Under the influence of Dahl the main activity at CMI became science and technology.

KJM 5900 Autumn 2005

Alexis C. Pappas

- When Gleditsch gradually stepped down her teaching at the University of Oslo, one of her brightest pupils took her place: Alexis C. Pappas.
- Pappas was employed as scientific assisent to Gleditsch between 1941-47.
- He worked in Paris in 1948 and 49.
- After that, he returned to the University of
- Oslo
- He worked at the Massachusetts Institute of Technology in Boston between 1949 and 51.
- Pappas was given a professorship in radiochemistry from the National Cancer Society in 1957.
- In 1962 he was employed by the University as professor in nuclear chemistry

The "glory" of nuclear energy fades...

• The enthusiasm about nuclear energy faded in the 70's

- For a land generously provided with ample amounts of hydro power, it was easy for the politicians to abandon nuclear energy to please the voters.
- At the same time oil was discovered below the sea outside the Norwegian coast and the politicians decided that "Norway will not use nuclear energy in the foreseeable future".

900 Autumn 200



JEEP I



From th start-up of JEEP I in

195



- Thanks to the exceptional engineering and scientific abilities of Dahl, Randrups dream became true: The JEEP I nuclear-research reactor went critical on the first try in 1951
- Norway was the sixth country which built a nuclear reactor (after USA, UK, USSR, France and Canada).
- Many obstacles had to be overcome in order to get uranium for the reactor (many of them was created by the US), finally Norway got uranium from the Netherlands.

Pappas' work

KJM 5900 Autumn 2005

Pappas nuclear chemistry group in Oslo was highly regarded and educated a huge number of both Norwegian and foreign students. At the most intense, more than 30 students were working in Oslo.

- Pappas played a major part in the international collaboration to build CERN in Geneva.
- He and prof. Rudstam (Uppsala University) were the main forces behind the then unique ISOLDE project at CERN for studying nuclei far from stability.



Jon Petter Omtvedt

Picture from the celebration of Pappas' 60 years birthday.

IfE - the Institute for Energy research

- As it became evident that Norway would not exploit nuclear energy, IfA went trough a major reform to survive. In 1980 it changed name to "the Institute for Energy research" (IfE) and started to employ its considerable engineering and scientific expertise to participate in
- developing installations in the North Sea. Today IfE has major national and international projects for
- the petroleum industry. Many projects uses nuclear methods, e.g. tracers, to achieve it goals. • In addition, IfE continues its highly regarded international
- research on reactor technology and safety.

KJM 5900 Autumn 2005



