

# LKB Milstones Calorimetry Systems

Instruments for precise determination heat produced by chemical or physical reactions

## Background

The LKB calorimeters were developed in collaboration with Professors Stig Sunner and Ingemar Wadsö at the Thermochemistry Laboratory, University of Lund Sweden. The project started 1964 shortly after Incentive had acquired LKB Produkter AB.



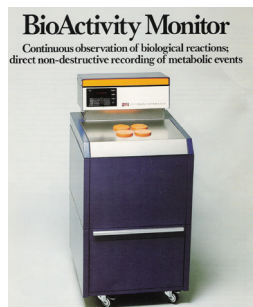
Stig Sunner



Ingemar Wadsö

## Products

- The LKB 8700 Precision Calorimetry System was introduced to the market 1966. The calorimeters are still sold today in their original design (although with modern electronics)
- The LKB 10700 Microcalorimetry System was introduced 1969, and Sorption Microcalorimeter 1973.
- In 1982 the BioActivity Monitor was added to the Micro calorimeters all of which were later replaced by a new product family The Thermal Activity Monitors.



**BioActivity Monitor**  
Continuous observation of biological reactions;  
direct non-destructive recording of metabolic events



## The first commercial sale

The very first commercial sale of an LKB Calorimeter was done by Helge Hinz when he in spring 1966 sold a Precision Calorimeter to Institute für Pharmazeutische Chemie at the University of Münster in Germany.



## Helge in the 60's and now in his 60's

Close to 500 Precision Calorimeters and 1000 Micro calorimeters and Thermal analyzers have been sold since the introduction. The price to the end-user varies from 500 000 to 2.5 million SEK.

## Today

- The Precision Calorimeters and the Thermal Analyzers are since 1982 manufactured by Thermometric AB in Järfälla.
- Ingemar Wadsö, today professor emeritus at the University of Lund, has also developed XXXXX that will be introduced yyy, zz
- Min mångkanals kalorimeter (48 kanaler, men kommer i versioner med 6 – 96 kanaler), som Du såg på mitt lab har nu börjat att marknadsföras av SymCel AB, ett nybildat bolag där doc. Dan Hallén är Vd. (disputerade för 10-15 år sedan i Termokemi. Dan var den som gav mig idén att bygga en mikrokalorimeter anpassad till analysplattor (även om idén något har ändrats under arbetets gång). Användningsområdet är primärt "cell-drug interactions",

## Conclusion

- "The LKB Calorimeters are still today the most sensitive and precise instruments for heat measurement!"
- "It's just as difficult today as it was 1966 to sell a Calorimeter"

Pictures of 8700, 10700, 2277 och TAM.

**LKB**