



**Experiment title:** Crystal structure determination of Tri-acyl-glycerol compounds from very small crystals

**Experiment number:**  
CH-836

**Beamline:**  
ID 11

**Date of experiment:**  
from: 18-2-2000 (7.00) to: 22-2-2000 (7:00)

**Date of report:**  
24-2-2000

**Shifts:**  
12

**Local contact(s):**  
Åke Kvick

*Received at ESRF:*

**Names and affiliations of applicants (\* indicates experimentalists):**

Henk Schenk, Arjen van Langevelde\*, René Peschar, Kees Goubitz\* and Jan Fraanje\*  
Laboratory for Crystallography  
Institute for Molecular Chemistry (IMC)  
Universiteit van Amsterdam  
Nieuwe Achtergracht 166  
1018 WV Amsterdam  
The Netherlands

**Report:**

In this session single crystals of five tri-acyl-glycerols were measured. The structure of one of them,  $C_{35}H_{66}O_6$  (CLC) was solved from an earlier measurement at ESRF (CH-592), but not completely refined, due to the fact that we did not obtain enough high-angle reflections. This time we measured several new crystals of CLC.

We also re-measured BBB (tribehene;  $C_{69}H_{134}O_6$ ) and 15.17.15 (1,3-dipentadecanoyl-2-heptadecanoyl-glycerol;  $C_{50}H_{96}O_6$ ). We managed to solve  $\beta$ -BBB and index 15.17.15.

Furthermore, we measured PSP (1,3-dihexadecanoyl-2-octadecanoyl-glycerol;  $C_{53}H_{102}O_6$ ) and MPM (1,3-ditetradecanoyl-2-hexadecanoyl-glycerol;  $C_{47}H_{90}O_6$ ). Due to MDT the measurement of MPM could not be completed. The indexing of these last two is still in progress.