#### News from Poland - work for T3000

# Agnieszka Zalewska ICARUS EC meeting, 16.01.2004

- Preparations for the production of the anode wires (in contact with the Pavia group)
- Cross checks of the T3000 mechanical designs (in contact with Elio Calligarich and Air Liquide)

## Wire production -division of work

## Goal: be ready to start the production in April

- Main table, control of the wires the Warsaw group
- Small moving tables and their control electronics the Cracow group (redoing the Pavia equipment) administrative problem with sending part of the equipment to Cracow has to be solved.
- ·Auxiliary table, other small equipment, equipment purchases
- the Katowice group
- Communication through the web a special www page for wire production is under construction

Problem???!!! Delivery time (>6 months) of some crucial components. We should order them now. Is it safe?

## Main table - concept

Warsaw, 30.05.2003

Dear Elio,

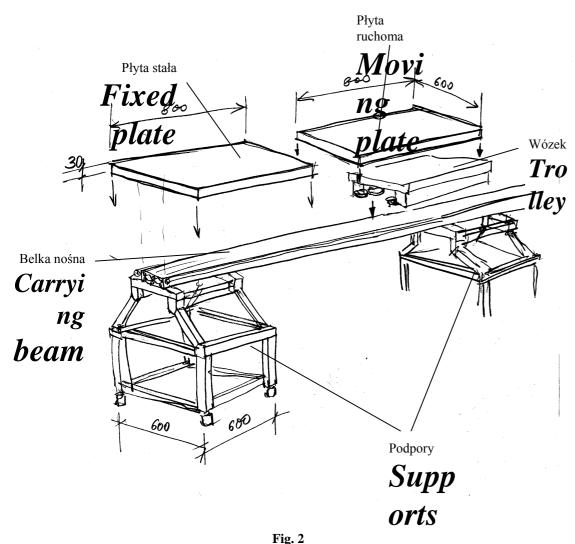
I am sending you a few drawings concerning the concept of the assembling table for producing wires for the Icarus experiment. A scheme of the 11 metres long table is shown in figure 1. The table consists of:

- 1. Carrying beam (see Figs. 2 and 3) made of duralumin beam 160×80.
- 2. Seven supports (see Figs. 1 and 3) fastened to the floor by screws.
- 3. Trolley (see Figs. 2, 3 and 4) moving on the carrying beam. A plate with electric motors is attached to the trolley.
- 4. Fixed plate (see Fig. 2) attached to the main beam.
- 5. Ruler (10 m long) equipped with measuring head (see Figs. 5a, 5b, 5c and checking position of the trolley with respect to the fixed plate with resolution of 5  $\mu$ m/m.
- 6. Coarse and precise adjustment of the trolley's position will be done manually.

  Author: H.Czyrkowski from Warsaw

A.Zalewska, EC meeting, 16.01.2004

## Main table - under construction







A.Zalewska, EC meeting, 16.01.2004

Author: H.Czyrkowski from Warsaw

## Wires - laboratory in Cracow

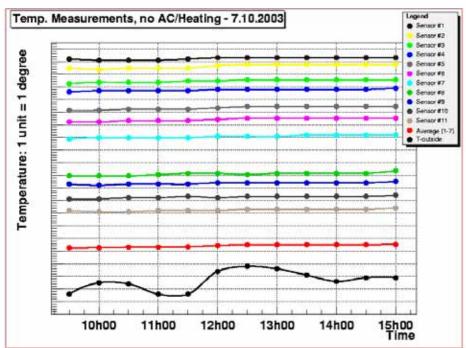


Completely renovated laboratory: 12x5.5 m<sup>2</sup>, removed wall, new windows, renewed electrical installation lighting according to the Polish industrial norms

Finished in September, supervised by M.Markiewicz

A.Zalewska, EC meeting, 16.01.2004

## Temperature stabilisation

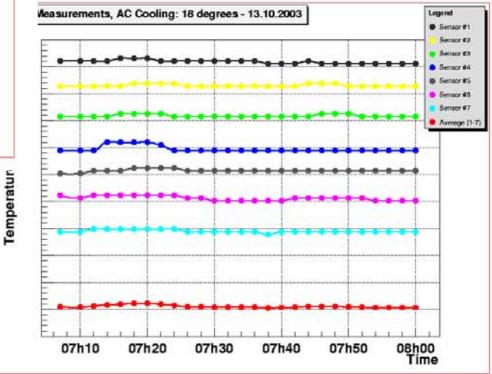


Checks for no cooling/heating, cooling to 18°, heating to 27° - temperature stable well within one degree but in autumn small changes of external temperature, temperature monitoring envisaged

A.Zalewska, EC meeting, 16.01.2004

Measurements performed by M.Markiewicz during one week in October

12 temperature sensors, relative calibration



# Checks of mechanical drawings from AirLiq

- H.Kuna-Ciskał (mechanics engineer), M.Maślak (civil engineer) and PhD student from Technical University in Cracow - finite elements analysis of the cryostat constituents under vacuum and under hydrostatic pressure,
- Based on CAD drawings from AirLiquide, coordinated by Elio Calligarich
- The work has started in September for an initial drawing of the cryostat corner structure weak points had been found, corrected by Air Liquide on the next drawing of this structure (included into big folder)
- New CAD drawings sent to Cracow in October, construction looks
  safe now but cross-checks have been done assuming an uniform support
   possible deformations due to local supports should be checked when
  exact drawings of the supports are available
- A short summary sent to Elio before Christmas, a more extensive description is available now

#### Other contributions

- Work on the data compression started by W.Półchłopek during his stay in Padova, to be continued in Cracow
- Other possible contributions to the work on DAQ are discussed with Sandro Centro - electronics engineers from Warsaw could help