

WORKING GROUP MEETING

On Hospital Based Charged Particle Beam Therapy Facilities

August 22 and 23, 1985, Fermilab

PROGRAM

Thursday, August 22, 1985 (Closed Meeting, Comitium\*)

0930 – 1000 Refreshments

1000 – 1200 Discussion A. Moderator, J. Archambeau.

1200-1330 Buffet Luncheon

1330 – 1500 Discussion B. Moderator, J. Castro.

1500 – 1530 Refreshments

1530 – 1700 Discussion C. Moderator, R. Kjellberg

1900 – Diner d'haute cuisine a Chez Leon avec les compliments de l'URA

Post dinner discussion: Is there a need for a planning grant for low-LET Charged Particle therapy beams? M. Goitein, Part I.

Topics for Discussion

“THE PATIENT END” (or “The Hardware between Accelerator and Patient”)

A.1 - National resources and the design of a modern proton therapy facility, P. Livdahl.

A.2 – Beam a) Eyes, E. Gragoudas

Sizes b) AVM's R. Kjellberg

c) Boost to gross cancers

d) Photons versus protons for large volumes, L. Cohen

B.3 – Uncertainties in tumor localization and dose delivery, M. Goitein

B.4 – Special localization problems: eye, brain, and chordomas E. Gragoudas, R. Kjellberg,

J. Munzenrider

B.5 – Widths of stretched out Bragg peaks, J. Castro

C.6 – Beam spreading: scanning versus scatter, W. T. Chu

C.7 – Beam direction: fixed versus variable, J. Alonso

C.8 – New applications for charged particle beams, K. Thomas

Friday, August 23, 1985 (Closed Meeting)

0830 – 0930 Discussion D. Moderator, F. R. Hendrikson.

0930 – 1000 Refreshments

1000 – 1130 Discussion E. Moderator, J. Munzenrider.

1130 – 1300 Buffet Lunch

1300 – 1430 Discussion F. Moderator, J Slater.

## Topics for Discussion

### “THE MACHINE”

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|---|----------------------|
| D.1 – Beam: energy and particle type(s),  | M. Goitein.          |
| D.2 – Treatment time: seconds versus minutes,   | F. R. Hendrickson.   |
| E.3 – Progress Report: The Argonne system,  | R. Martin.           |
| E.4 – Progress Report: The Michigan system,   | H. Blosser.          |
| E.5 – The Scanditronix system,  | C. Mileikowski.      |
| E.6 – The Brobeck system,   | K. Thomas.           |
| E.7 – The Fermilab system,  | P. Livdahl.          |
| F.8 – Reliability and maintenance. Equipment support personnel: numbers and qualifications, | P. Livdahl.          |
| F.9 – Other topics  |                      |
| F.10 – Is there a need for a planning grant for low-LET charged particle therapy beams?,    | M. Goitein, Part II. |

Friday, August 23, 1985 (Open meeting, Curia II\*)

1430 – 1500 Refreshments

1500 – 1700 Presentations

## Topics for Presentation

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| 1.0 Update on Clinical Uses of Charged Particle Beams. |  |
| 1.1 AVM's and pituitary,                               | R. Kjellberg, Mass. General Hospital.    |
| 1.2 Eye melanomas,                                     | E. Gragoudas, Mass. Eye & Ear Infirmary. |
| 1.3 Radiation oncology with charged particle beams,    | J. Munzenrider, Mass. General Hospital.  |
| 2.0 Summary of Meeting on Facility Design              | F. Cole (ANL).                           |

\*Both the Comitium and the Curia II are in the R. R. Wilson Hall, 2<sup>nd</sup> floor.

Invitees to the Working Group Meeting on  
Hospital Based Charged Particle Beam Therapy  
Facilities – August 22 & 23, 1985

The original list included address etc.

Dr. Jose Alonso, LBL.  
John O. Archambeau M.D., Loma Linda.  
Miguel Awschalom, Ph.D., Fermilab.  
Henry Blosser, Ph. D., Michigan State Univ.  
Joseph R. Castro, M.D., LBL.  
George T. Y. Chen, Ph. D., Univ. of Chicago Hospital.  
Dr. William Chu, LBL.  
Lionel Cohen, M.D., Fermilab  
Francis Cole, Ph. D., ANL.  
Jacob Fabricant, M.D., LBL.  
Michael Goitein, Ph.D., MGH.  
Dr. Richard Gough, LBL.  
Evangelos Gragoudas, M.D., MEEI.  
Frank Hendrickson, M.D., Fermilab.  
Andreas M. Koehler, HCL.  
Raymond Kjellberg, M.D., MGH.  
Leon Lederman, Ph. D., Fermilab.  
Philip Livdahl, Fermilab.  
Richard Lundy, Ph. D., Fermilab.  
Ronald Martin, Ph.D., ANL.  
Curt Mileikowski, Scanditronix, Sweden.  
John E. Munzenrider, M.D., MGH.  
S. O. Schriber, LANL.  
James Slater, M.D., Loma Linda.  
Alfred. R. Smith, Ph. D., U. of Penn.  
Herman Suit, M. D., Ph. D., MGH.  
Lee Teng, Ph. D., Fermilab.  
Kenneth Thomas, Brobeck Corp.  
Lynn J. Verhey, Ph. D., MGH.  
Richard Wilson, Harvard Univ.

Not sure if the following were present:

Bernard Gottschalk, HCL.  
Prof. R.R. Wilson, Cornell Univ.