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2/10/85

**MINUTES OF PTCOG MEETING
ST LOUIS, 24th October, 1985**

**&
Announcement of FERMILAB III meeting
Jan 22nd. & 23rd., 1986**

A one day meeting of PTCOG was held in St. Louis on 10/24/85. The steering committee met in the morning, primarily to discuss the charges to the three working groups. The issue of possible funding for PTCOG activities was also discussed, and the consensus was to not seek funding to support the working groups' activities at the present.

The three working groups met separately in the afternoon – followed by a meeting of the combined groups for general discussion. Our plan is to circulate concise minutes of the working groups' deliberations to all members of PTCOG – and detailed minutes to members of the working groups only. Minutes of the clinical applications and accelerator design working groups are appended to this letter. The facilities group spent most of its time discussing details of, and assigning responsibilities for, a group report. This report is intended to address in some detail most of the issues associated with a proton therapy facility, and to identify those areas in which more work is needed. A first draft of the report should be assembled by mid-January in time for the next PTCOG meeting.

The **next meeting of PTCOG** will be held at Fermilab on Wednesday January 22nd (starting about 2:30pm) & Thursday January 23rd (ending about 3:30 pm), 1986 – almost one year to the day since the first Fermilab meeting was held. Details of the arrangements and agenda will be circulated shortly. In the meantime, please fill out the attached form indicating the likelihood of your attendance at the meeting, so that we can make adequate arrangements. We plan to have a combination of separate working group meetings (Wed. pm and Thurs. first half of am) and a meeting of the entire group which will include formal presentations and time for discussion. Please indicate any items that would like to see placed on the agenda. If you have new work which you would wish to report on, please indicate this on the form. We are very anxious to encourage such presentations – and to discourage presentations of material already before the group! Do not **delay** in returning this form to your secretary at the above address!

A block of rooms has been reserved for the night of Wed. Jan 22nd. at the Best Western Fox Valley Inn (~5 km. from Fermilab) under the name of PTCOG at \$27.95/room. Call them directly at (312) 8515-2000 to make your reservation.

A list of PTCOG members with their telephone numbers is attached for your convenience. Mailing labels can be sent to you at a moments notice if you but request them. If you know anyone who would like to be included, or you think ought to be included, in the PTCOG please have them write me.

PTCOG

PROTON THERAPY COOPERATIVE GROUP

ACCELERATOR DESIGN WORKING GROUP
SUMMARY PARAGRAPH OF 85/09/17 MEETING

The charge to the accelerator design working group was reviewed and modified slightly by those attending the working group meeting – Frank Cole, Phil Nummy, Ken Thomas, Rich Gough, Bernie Gottschalk, Ron Martin, Stan Schriber. Specification for energy, energy variability, current, diagnostics and average duty factor do not impose any serious constraints on design, fabrication, of commissioning of the accelerator. The group, with input from possible accelerator fabricators and other interested parties, will develop a check list that could be used to determine performance specifications and offer a means to assess or evaluate different schemes.

SUMMARY OF UTILIZATION REVIEW MEETING
October 24, 1985 – Time

The charges given to this committee (see enclosures) are paraphrased: a) to identify the types, stages and location of different cancers that are suitable for proton radiation therapy; b) to justify this selection; c) indicate how it could be evaluated (tested); and d) suggest a program to accomplish it.

The current and potential utilization of proton beam therapy was reviewed. Proton therapy of selected choroidal melanomas, cervical chordomas and A-V malformations produce an incidence of disease control not obtained utilizing x-ray or surgical approaches. Phase III studies are required to quantify this benefit and to evaluate the time dose schedules employed.

Combined x-ray and proton boost schedules for prostate, head and neck and other areas are being evaluated in Phase II studies. Patient response and incidence of local control are similar to those obtained using x-ray treatment plans. Particle radiation therapy Phase I and II protocols at LBL document the feasibility of large volume proton irradiation of lung and GI tract disease. The incidence of disease control and normal tissue response are similar to those reported using x-ray treatment plans.

Isolated Phase I studies document successful therapy for cancers adjacent to critical structures without producing unacceptable normal tissue damage.

Future Phase I and II studies should evaluate the proton dose distributions for the treatment of retinoblastoma, bladder, bile duct, recto-sigmoid and pancreas carcinomas; soft tissue sarcomas; pediatric malignancies and paraaortic involvement with cancer.

The consensus was that a proton facility should provide four therapy rooms: one of which is to be used for developmental and bio-physics research. A gantry and multiple isocentric horizontal, vertical and angled beams are required for suitable dose delivery. The beam energy should be variable between 70 and 250 MeV with a flux intensity capable of delivering 2000 rad/minute to a 12 liter volume.

While recognizing that a free-standing proton facility may be required to serve as a community resource: a proton facility should be located in a medical center locale providing the necessary clinical, support and diagnostic services.

Prior to the next meeting in Chicago on January __, reports reviewing the established, current and future utilization of protons will be prepared emphasizing charges 4, 5, 8 in preparation for charge 9 (see enclosures).

PTCOG

All members

12/2/85

<u>NAME</u>	<u>INITIALS</u>	<u>C'MTEE</u>
Alonso	Jose	A
Archambeau	John D.	S, C
Awschalom	Miguel	F
Bennett	Gerald W.	F
Blokhin	Nicoli	
Blosser	Henry	A
Bradbury	James	
Brand	William	
Bush	Raymond	
Castro	Joseph	S, C
Chassagne	Daniel	
Chu	William	F, A
Cohen	Steven	C
Cole	Francis	S, A
Duncan	William	
Dutreix	Jean	
Enge	Harald	F
Eschwege	Francois	
Fukumoto	Sadayoshi	A
Gabauer	Reinhard	C
Goitein	Michael	S, F, A, C
Goldberg	Morton F.	
Gottschalk	B.	A
Graffman	Sten	
Gragoudas	Evangelos	C
Grenier	Richard	
Griem	Melvin	C
Herbster	George A.	F, A
Jones	D. T. L	
Kitagawa	Toshio	
Koehler	Andreas M.	F
Kramer	Stephen	A, F
Liebner	Edwin	C
Livdahl	Philip V.	
Lyman	John	
Mahoney	Francis J.	
Malglaive	Jean-Charles	
Marks	James	C
Martin	Ronald	F, A
Mileikowski	Curt	F, A
Miller	Dan	F
Mittal	Bharat	
Munzenrider	John E.	C
Nichikawa	T.	A
Peyman	Gholam	
Pistenmaa	David A.	
Pochen		
Rosenberg	Ivan	F
Rottinger	Erwin	C, F, A
Saunders	W.	
Schriber	Stanley O.	S, A
Sealy	Rossall	
Slater	James	S, F, C

Smit	Ben	
Suit	Herman D.	S, C
Swenson	Donald A.	
Thomas	Kenneth M.	F, A
Tobias	Cornelius A.	
Tubiana	Maurice	
Verhey	Lynn	F
Wagner	Miles	
Wiley	A. L.	
Wilson	Richard	S, F
Wilson	Robert	A
Winkel	Zum	
Zeitlen	Bruce A.	
Zink	Sandra	

Phone numbers were included in the original document