

ASSOCIATED UNIVERSITIES, INC.

10 Columbus Circle  
New York 19, New York

April 25, 1957

MEMO TO: AUI Radio Astronomy Advisory Committee

FROM: Richard M. Emberson

SUBJECT: Final Notice on May 7, 1957 Meeting

1. Dr. Menzel has kindly arranged for us to meet at the Harvard College Observatory. Please go to the new building, just off Concord Avenue. The meeting is scheduled for 9:30 a.m., Tuesday, May 7. Your telephone contact during the meeting will be through Dr. Menzel's office -----  
Kirkland 7-7600, ext. 2392
2. An agenda for the meeting is enclosed. Because of the bulk of the material, no effort will be made to distribute plans for the 140-foot radio telescope in advance of the meeting.
3. In view of the late date, if you have not already made your travel and hotel reservations, I believe it is best that you do so directly and not through us.

Copies to:

? R.N. Bracewell ✓	* D.S. Heeschen
* A.J. Deutsch ✓	? E.F. McClain ✓
* F.K. Edmondson ✓	* G.C. McVittie ✓
* J.W. Findlay	A.B. Meinel
? W.E. Gordon	D.H. Menzel ✓
F.T. Haddock ✓	J.M. Mitchell
	J.B. Wiesner

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Agenda

for the meeting of the

AUI Radio Astronomy Advisory Committee

9:30 a.m., May 7, 1957  
at the

Harvard College Observatory  
60 Garden Street  
Cambridge, Mass.

1. The 140-foot Telescope Program
  - 1.1 The Basic Design - N.L. Ashton
  - 1.2 The Polar Axis Bearings - M.B. Karelitz
  - 1.3 The Drive and Control - J.W. Findlay
  - 1.4 Wind Tunnel Tests - D.S. Heeschen
  - 1.5 Bids and Contracts - R.M. Emberson
2. An Intermediate-Size Telescope
  - 2.1 General Specifications - D.S. Heeschen
  - 2.2 Receiver and RF-Feed - J.W. Findlay and D.S. Heeschen
3. Site Development
  - 3.1 Acquisition - J.W. Findlay
  - 3.2 Interim Laboratory, Office, and Housing - J.W. Findlay
  - 3.3 Plans for Construction - R.M. Emberson
  - 3.4 FCC Protection of Radio Astronomy Frequencies - J.W. Findlay
4. Facilities Estimated to FY 1962
  - 4.1 Status of Present Appropriations and Budget - R.M. Emberson  
and F.K. Edmondson
  - 4.2 Major Equipment Requirements - R.M. Emberson
    - 4.2.1 Large aperture, high gain antennas
    - 4.2.2. Other antennas
    - 4.2.3. Electronic equipment - receivers, transmitters, etc.
    - 4.2.4. Computer

4.3 Building Requirements

- 4.3.1. Assembly hall
- 4.3.2. Shops and Maintenance
- 4.3.3. Housing
- 4.3.4. Special Laboratories

5. Provisional Schedule of Activities

Copies to:	R.N. Bracewell	D.S. Heeschen
	A.J. Deutsch	E.F. McClain
	F.K. Edmondson	G.C. McVittie
	J.W. Findlay	A.B. Meinel
	W.E. Gordon	D.H. Menzel
	F.T. Haddock	J.B. Wiesner

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Appendix 4 - Facilities Estimates to FY 1962

<u>I Already Programmed</u>	Budgeted (thousands) <u>FY 1957-59</u>
Major Equipment -	
Antennas - 140-foot telescope	2,200
60-foot telescope	250
28-foot telescope	75
RF Components, Receivers, & Data Recorders	1,110
Buildings -	
Site acquisition (2000 acres, covenants on 10,000 acres, etc.)	650
Telescope Maintenance Building	90
Control Building - 140-foot telescope	40
Control Building - 85-foot telescope	25
Laboratory & Administration Building	1,135
Control buildings for arrays, mobile equipment	50
Housing and cafeteria	600
Site Maintenance	250

<u>II For Future Programs</u>	Not Budgeted		
Major Equipment -			
Very high gain, high resolution antenna	<u>1960</u>	<u>61</u>	<u>0.2</u>
Second intermediate (60- to 90-foot ) paraboloid	1M		15M
Arrays, Mills Cross, etc.		1.5M	
RF Components, receivers, etc.	0.2M	0.3M	1M
Solar system transmitter	0.25M	2.5M	
High speed, intermediate capacity computer	<u>1M</u>		
Buildings -			
Additional site acquisition	←	0.4M	
Extend telescope maintenance building		0.1M	
Additional control buildings (4)	50K	50K	
Assembly Hall - laboratory building	.25M		
Main Shops	.25M		
Housing		.18M	
	<u>.55M</u>	<u>.75M</u>	
	~ 4M	~ 6M	~ 17M