

You are welcome to nominate speakers to colloquium@nao.cas.cn. The video and slides of previous colloquia and more information can be found at <http://colloquium.bao.ac.cn/>.

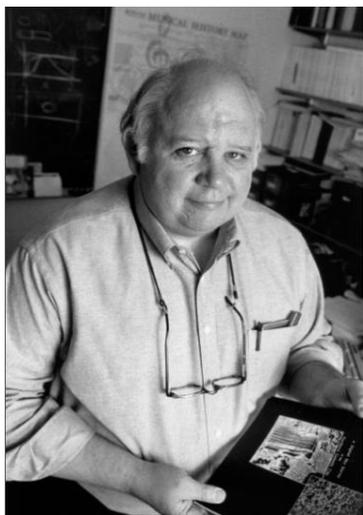
国台学术报告 NAOC COLLOQUIUM

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Time: Wednesday 2:30 PM, Dec. 9th **Location: A601 NAOC**

A discussion of dust in astrophysics: what is it and where does it come from

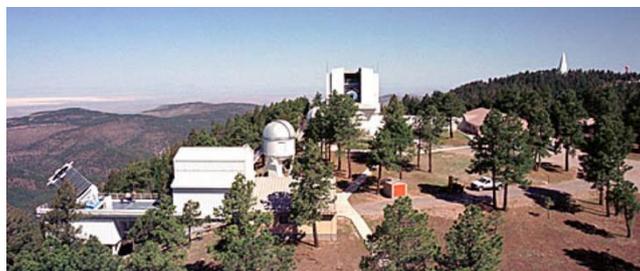
Prof. Don York
University of Chicago



Prof. Don York graduated from MIT in 1966 and the University of Chicago (grad school) in 1971. He worked for 12 years with the Copernicus satellite measuring the abundances of the elements in interstellar space, including the first astrophysical abundance of deuterium, and discovered that refractory elements are depleted almost as much in unreddened sightlines as in reddened ones. He moved to the Chicago faculty in 1982 and became involved in building the 3.5 meter telescope at Apache Point, as well as the Sloan Digital Sky Survey, both of which he served as founding director for over 10 years. Since 1998 he has devoted his efforts to the study of QSO absorption lines and to the study of the diffuse interstellar bands.

Abstract

A summary of the standard arguments used to derive the nature of dust in interstellar space will be given. Then, developments over the last decade that have thrown doubt on this model will be discussed, including some aspects that seem to vary from galaxy to galaxy at all redshifts. The growing realization that diffuse interstellar bands (diffuse interstellar bands) are evidently not the products of bottoms up chemistry; continuing failure to explain a number of observational aspects of dust (DIBs, ERE, blue luminescence, unidentified infrared bands and anomalous microwave emission) suggest that we have much to learn about a key constituent in the forming of stars.



All are welcome! Tea, coffee, biscuits will be served at 2:15 PM.