Request for an Analytical Transmission Electron Microscope

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Two

Unclassified

Analytical Electron Microscopy

see attached
FINAL REPORT

on

"REQUEST FOR AN ANALYTICAL TRANSMISSION ELECTRON MICROSCOPE"

Submitted by

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October 16th., 1987
Introduction

A request was made in response to the DoD/URIP FY86/FY87 University Equipment Program. At that time, an advanced analytical transmission electron microscope was requested. Following the award of funds, the microscope has been chosen, ordered and is to be delivered shortly. It will be in essence the most advanced microscope of its kind.

Action to Date

Following the award of funds, the first item of action was to select the given electron microscope. All available literature on the competing instruments was gathered, and in two instances two site visits were made for the purposes of demonstration. The choice of a Philips CM12 was made, since it was felt that this microscope would be able to fulfill the needs of the research effort to which it will be applied. Thus, an order was made for the microscope, scanning transmission electron microscopy unit, energy dispersive x-ray analysis system, and other smaller items as detailed in the proposal. The delivery date for this equipment has been estimated as being on or about the first week of November, 1987. At that time, acceptance tests will be made following installation. We estimate full operation by the end of November. A supplemental report on the performance of this microscope will be made to the technical monitor after some period of operation.
END

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