

PROJECT ADMINISTRATION DATA SHEET

☒ ORIGINAL ☐ REVISION NO. \_\_\_\_\_  
Project No. E-19-625 (R5938-0A0) GTRC/GIT <sup>XXX</sup> DATE 5 / 2 / 85  
Project Director: A. S. Teja School/Lab <sup>XXX</sup> ChE  
Sponsor: National Science Foundation

Type Agreement: Grant No. CBT-8502105  
Award Period: From 4/15/85 To 2/28/86 (Performance) 5/28/86 (Reports)  
Sponsor Amount: This Change Total to Date  
Estimated: \$ \_\_\_\_\_ \$ 4,000  
Funded: \$ \_\_\_\_\_ \$ 4,000  
Cost Sharing Amount: \$ N/A Cost Sharing No: N/A  
Title: International Travel: CODATA Meeting of Phase Equilibrium and Related  
Property Data

ADMINISTRATIVE DATA

## 1) Sponsor Technical Contact:

Robert M. Wellek  
National Science Foundation

OCA Contact John Schonk x4820

## 2) Sponsor Admin/Contractual Matters:

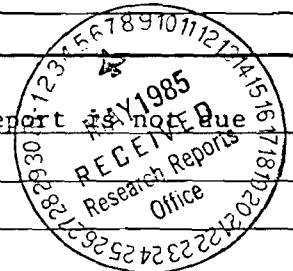
Richard E. Hastings  
National Science Foundation

202/357-9606202/357-9628Defense Priority Rating: N/AMilitary Security Classification: N/A(or) Company/Industrial Proprietary: N/ARESTRICTIONSSee Attached NSF Supplemental Information Sheet for Additional Requirements.

Travel: Foreign travel must have prior approval – Contact OCA in each case. Domestic travel requires sponsor  
approval where total will exceed greater of \$500 or 125% of approved proposal budget category.

Equipment: Title vests with N/ACOMMENTS:

No funds may be expended after 2/28/86 even though the final report is not due  
until 5/28/86.

COPIES TO:SPONSOR'S I. D. NO. 02.107.000.85.038

Project Director  
Research Administrative Network  
Research Property Management  
Accounting

Procurement/EES Supply Services  
Research Security Services  
Reports Coordinator (OCA)  
Research Communications (2)

GTRC  
Library  
Project File  
Other Newton; Jones

SPONSORED PROJECT TERMINATION/CLOSEOUT SHEETDate 5/14/86Project No. E19-625School/XXX ChEIncludes Subproject No.(s) N/AProject Director(s) A. S. TejaGTRISponsor National Science FoundationTitle - International Travel: CODATA Meeting of Phase Equilibrium and Related

## Property Data

Effective Completion Date: 2/28/86 (Performance) 5/28/86 (Reports)

## Grant/Contract Closeout Actions Remaining:

- ☐ None
- ☐ Final Invoice or Final Fiscal Report
- ☐ Closing Documents
- ☒ Final Report of Inventions Questionnaire sent to P.I.
- ☐ Govt. Property Inventory & Related Certificate
- ☐ Classified Material Certificate
- ☐ Other \_\_\_\_\_

Continues Project No. \_\_\_\_\_

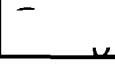
Continued by Project No. \_\_\_\_\_

## COPIES TO:

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Reports Coordinator (OCA)  
Legal Services

Library  
GTRI  
Research Communications (2)  
Project File  
Other A. Jones

R. Embry

<b>NATIONAL SCIENCE FOUNDATION</b> Washington, D.C. 20550		<b>FINAL PROJECT REPORT</b> NSF FORM 98A			
PLEASE READ INSTRUCTIONS ON REVERSE BEFORE COMPLETING					
<b>PART I-PROJECT IDENTIFICATION INFORMATION</b>					
<b>1. Institution and Address</b> Georgia Institute of Technology Atlanta, GA 30332		<b>2. NSF Program</b> Chemical Biochemical & Thermal <b>4. Award Period</b> From 4/15/85 To 2/28/86		<b>3. NSF Award Number</b> CBT 8502105 <b>5. Cumulative Award Amount</b> \$4,000	
<b>6. Project Title</b> "International Travel: CODATA Meetings on Phase Equilibrium and Related Property Data: Paris, France, September 4-11, 1985"					
<b>PART II-SUMMARY OF COMPLETED PROJECT (FOR PUBLIC USE)</b>					
<p>This grant provided partial travel support to nine attendees from U.S. universities to three CODATA meetings on phase equilibria held in Paris in September, 1985. All participants presented technical papers and/or chaired one or more sessions at the meetings. Their participation was valuable to international scientific exchange.</p>					
<b>PART III-TECHNICAL INFORMATION (FOR PROGRAM MANAGEMENT USES)</b>					
<b>I.</b>  <b>ITEM (Check appropriate blocks)</b>	<b>NONE</b>	<b>ATTACHED</b>	<b>PREVIOUSLY FURNISHED</b>	<b>TO BE FURNISHED SEPARATELY TO PROGRAM</b>	
				<b>Check (✓)</b>	<b>Approx. Date</b>
<b>a. Abstracts of Theses</b>	XX				
<b>b. Publication Citations</b>	XX				
<b>c. Data on Scientific Collaborators</b>	XX				
<b>d. Information on Inventions</b>	XX				
<b>e. Technical Description of Project and Results</b>		XX			
<b>f. Other (specify)</b>					
<b>2. Principal Investigator/Project Director Name (Typed)</b>  Dr. Aryn S. Teja		<b>3. Principal Investigator/Project Director Signature</b>  			<b>4. Date</b>  4/21/86

## FINAL REPORT

NSF Grant No.: CBT 8502105

Amount: \$4,000

Title: "International Travel: CODATA Meetings on Phase Equilibrium and Related Property Data; Paris, France, September 4-11 1985"

Principal Investigator: Dr. Aryn S. Teja

### DESCRIPTION

The purpose of this grant was to provide partial travel support to attendees from U.S. Universities to the three CODATA/IUPAC meetings on phase equilibrium and related property data held in Paris in September 1985. The three meetings were as follows:

- 1) The Second CODATA Symposium on Critical Evaluation and Prediction of Phase Equilibria in Multicomponent Systems, 4-6 September 1985.
- 2) The First International CODATA Conference on Chemical Thermodynamic and Thermophysical Properties Databases, 7-8 September 1985.
- 3) The Second International IUPAC Workshop on Vapor-Liquid Equilibria in 1-Alkanol + n-Alkane Mixtures, 9-11 September 1985.

The meetings were arranged consecutively at one venue to encourage international participation. They were held in The International House of The City Universite of Paris VII, France.

About 260 participants from all over the world attended one or more of the sessions. Due to the variety of thermodynamic topics covered in the sessions, the three meetings were termed "The Thermo Festival" by the participants. All the lectures, working party sessions and poster sessions were well attended.

The general conclusions of the three meetings were as follows:

- (1) There is a lack of data for complex mixtures at extremes of pressures and temperatures. Such data are needed for the development of new materials and processes.

- (2) There is an urgent need for a universal standard for data banks and data dissemination systems.
- (3) The existing predictive techniques are inadequate for mixtures containing species with large molecular size and shape differences. This is also true for asymmetric mixtures consisting of hydrogen bonding and polar species.

Nine U.S. Academic participants were awarded \$400 each to help defray expenses associated with attendance at this conference. The nine participants included Professors Chao (Purdue), Danner (Penn State), Eckert (Illinois Urbana), Gubbins (Cornell), Mansoori (Illinois, Chicago), Sandler (Delaware), Starling (Oklahoma), Tassios (NJIT) and Wilhoit (Texas A & M). A grant of \$400 was also made to Professor Arnold of Alabama. He was unable to attend, however. These ten investigators were the only ones to express an interest from amongst seventy-five people solicited. These seventy-five names included people who had expressed an interest in attending to the organizers of the meeting as well as other thermodynamicists. No industrial participants were solicited because it was felt that the size of the award would not make a difference between attendance and non-attendance to people from industry.

All U.S. participants either made presentations (papers or posters) at the meeting or chaired one or more of the sessions. The general consensus was that the meeting was very productive and valuable to international scientific exchange.