

PROJECT ADMINISTRATION DATA SHEET



ORIGINAL



REVISION NO. _____

Project No. G-42-614 (R6010-0A0)

GTRC/OTF

DATE 8 / 22 / 85Project Director: C. K. HertzogSchool/Lab PsychologySponsor: DHHS/PHS/NIH/NIAType Agreement: Grant No. 7 R01-AG06162-01Award Period: From 8/1/85 To 11/30/85 (Performance) 2/28/86 (Reports)

Sponsor Amount:

This ChangeTotal to DateEstimated: \$ _____ \$ 87,324Funded: \$ _____ \$ 87,324Cost Sharing Amount: \$ 2,700 Cost Sharing No: G-42-316Title: Short Term Change in Memory & Metamemory in the Elderly

ADMINISTRATIVE DATA

OCA Contact

John Schonk x4820

1) Sponsor Technical Contact:

2) Sponsor Admin/Contractual Matters:

Matilda W. RileyRuth S. McClureNational Institute of HealthNational Institute of HealthNational Institute on AgingNational Institute on AgingAssociate DirectorManagement OfficeBethesda, MD 20205Bethesda, MD 20205Defense Priority Rating: N/AMilitary Security Classification: N/A(or) Company/Industrial Proprietary: N/A

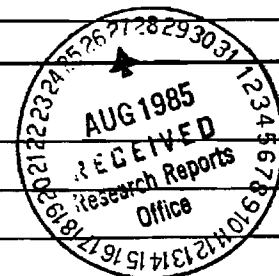
RESTRICTIONS

See Attached NIH 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 GIT

COMMENTS:

No funds may be expended after 11/30/85.

COPIES TO:

SPONSOR'S I. D. NO. 02.108.001.85.024Project Director
Research Administrative Network
Research Property Management
AccountingProcurement/GTRI Supply Services
Research Security Services
Reports Coordinator (OCA)
Research Communications (2)GTRC
Library
Project File
Other A. Jones

SPONSORED PROJECT TERMINATION/CLOSEOUT SHEET

5K, 680

Date 9/10/86

Project No. G-42-614

School ~~XXX~~ Psych.

Includes Subproject No.(s) N/A

Project Director(s) C. K. Hertzog

GTRC ~~XXX~~

Sponsor DHHS/PHS/NIH/NIA

Title Short Term Change in Memory & Metamemory in the Elderly

Effective Completion Date: 11/30/85

(Performance)

(Reports)

Grant/Contract Closeout Actions Remaining:

Annual report will be submitted under G-42-615.

☐ None

☐ Final Invoice or Final Fiscal Report - already submitted.

☐ Closing Documents

☐ Final Report of Inventions

☐ Govt. Property Inventory & Related Certificate

☐ Classified Material Certificate

☐ Other

Continues Project No. _____

Continued by Project No. G-42-615

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Project File
Other A. Jones
I. Newton
R. Embry

IV. Progress Report Summary

[Note: The Progress Report covers the entire first year of grant activity, including the period 12/1/84 - 7/31/85, supported by 1 R01 AG05165-01 to the Pennsylvania State University, and the period 8/1/85 through 11/31/85, supported by 7 R01 AG06162 to the Georgia Institute of Technology]

Publications

The following publications of the Principal Investigator of direct relevance to the grant-related efforts have been published, accepted, or submitted for publication during the grant period (12/1/84 - 11/30/85):

- Borgatta, E. F., & Hertzog, C. (1985). Introduction: Methodology and aging research. Research on Aging, 7, 3-6.
- Hertzog, C. (1985). An individual differences perspective: Implications for cognitive research in gerontology. Research on Aging, 7, 7-45.
- Hertzog, C. (1985). Applications of confirmatory factor analysis to the study of intelligence. In D. K. Detterman (Ed.), Current topics in human intelligence. Norwood, NJ: Ablex.
- Hertzog, C. (1985). Thurstone Temperament Schedule. In Keyser, D. J., & Sweetland, R. C. (Eds.), Test Critiques (Volume II). Kansas City, MO: Test Corporation of America.
- Hertzog, C., & Rovine, M. (1985). Repeated measures analyses in developmental research: Selected issues. Child Development, 56, 787-810.
- Schaie, K. W., & Hertzog, C. (1985). Measurement in the psychology of adulthood and aging. In J. E. Birren & K. W. Schaie (Eds.), Handbook of the psychology of aging (2nd Edition). New York: Van Nostrand Reinhold.
- Dixon, R. A., & Hertzog, C. (1986). A functional approach to metamemory development in adulthood. In F. Weinert & M. Perlmutter (Eds.), Memory development: Universal changes and individual differences. Contract under negotiation.
- Hertzog, C. (1986). On pooling covariance matrices for multivariate analysis. Educational and Psychological Measurement (in press).

Hertzog, C., & Schaie, K. W. (1986). Stability and change in adult intelligence: I. Analysis of longitudinal covariance structures. Psychology and Aging, 1, (in press).

Hertzog, C., & Nesselroade, J. R. (1986). Beyond autoregressive models: Some implications of the trait-state distinction for the structural modeling of developmental change. Manuscript submitted for a special section of Child Development on structural equation modeling.

Hertzog, C., Raskind, C. L., & Cannon, C. J. Adult differences in semantic information processing speed. Manuscript submitted for publication.

Hultsch, D. F., Dixon, R. A., & Hertzog, C. Memory perceptions and memory performance in adulthood and aging. Manuscript submitted for publication.

Copies of selected articles and manuscripts are provided in Appendix A.

Report

1. The goals of the project and the planned activities for Year 02 of the project are the same as originally proposed.
2. The following activities were completed during the first year of the project:

- a. Theoretical/Methodological.

1. Completion of two manuscripts describing our perspective on metamemory research and aging (Dixon & Hertzog, 1986; Hultsch, Dixon, & Hertzog, submitted; see above);
2. Completion of a paper on structural models for psychological states, as are being measured in the project (Hertzog & Nesselroade, 1986);
3. Development of a procedure for pooling covariance matrices for multivariate analysis. This technique was needed to combine data collected by Dixon & Hultsch for analysis of the factor structure of the MIA scale, and is reported in Hertzog (1986).

b. Empirical.

1. Analysis of the factor structure of the Dixon/Hultsch Metamemory in Adulthood (MIA) scales. This analysis supports the distinction between two separate dimensions of metamemory -- perceived self-efficacy and knowledge about memory functioning -- that is crucial to our research on metamemory. The results therefore indicate that current metamemory assessment techniques are measuring a domain of self-efficacy beliefs, and call into question 1) whether these beliefs may be discriminated from generalized self-efficacy beliefs, and 2) the accuracy of these beliefs at the individual level. Older persons may have incorrect perceptions of their memory capacities, and these perceptions and beliefs may influence their behaviors in memory-demanding situations. The data collected in Year 01 of the project is directly relevant to addressing the issue of convergent and discriminant validity of self-report metamemory measures.

The results of the factor analysis were reported at the 1985 meetings of the American Psychological Association. A copy of the paper is provided in Appendix A. The paper is being converted to a publication manuscript that will be submitted for publication in the near future;

2. Data collection for the large-scale validation study will be completed by the end of the grant period. As of 15 September, 350 adults, all members of a Family Practice in Annville, PA, had completed testing in the two session study measuring two metamemory instruments, personality factors, mood states, perceived locus of control, and memory performance.

3. A long-term weekly assessment of metamemory, memory, and affective states has begun for 2 members of the Cornwall Manor retirement community. As of 15 September, they have completed 6 assessments and will continue through the end of the project. This data collection is providing us with pilot data on the suitability of these measures for P-technique analysis. A third elderly participant "failed" our visual screening; she has been outfitted with new eyeglasses and is scheduled to start the repeated assessment procedures 26 September.

4. Microcomputer memory tasks have been programmed and are now being piloted for the first microcomputer experiment at Cornwall Manor. Collection of data is scheduled for 1 October 1985.

5. Data entry programs for the IBM PC have been written and debugged. Data from the validation study are now being entered into the microcomputers at Georgia Tech by the graduate assistant.

3. Specific Objectives for Upcoming Year

a. Complete key entry of data from validation study; analyze results.

b. Continue P-technique pilot data collection.

c. Analyze data from the first microcomputer experiment, scheduled for completion in the current grant period.

d. Run a series of microcomputer experiments examining memory in text and word list tasks using signal detection methods to estimate Memory Operating Characteristics (MOCs) in adults of varying ages. (The second series of microcomputer experiments described in the original proposal).

e. Write research reports on a, c, & d above.

f. Do preliminary analysis on the P-technique pilot data to prepare for a large-scale P-technique study to be conducted at Cornwall Manor next year.

4. Human subjects protocols have not changed.