Task Book Report Generated on: 04/25/2024

Pl Name: Nell Suzame Ph.D. Project Title: Interpresent Relations and Tame Effectiveness in Space Crews Britain Research Program/Discipline: Progr	Fiscal Year:	FY 2016	Task Last Updated:	FY 10/19/2016
Project File: AUS-Russian Collaborative Proposal for Data Collection in HERA: The Relationship heaveen Compusition, Interpersonal Relations, and Team Vificetiveness in Space Creas Program/Discipline:			Panada	
Program/Discipline: Program/Discipline- Element/Subdiscipline: Joint Agency Name: Ituman Research Program Elements: (I) HERP-Human Factors & Behavioral Performance (BP Rev I) Human Research Program Risks: (I) Team-Risk of Performance and Behavioral Health Decrements Due to Inadequate Cooperation, Coordination, Communication, and Psychosocial Adaptation within a Team Space Biology Cruss-Element None Space Biology Special Category: None Ple Email: Space Risology Special Category: None Ple Email: Space Risology Special Category: None Ple Email: Space Risology Special Category: None Ple Email: Ple Madres 1: Pl Addres 1: Pl Addres 2: Sk311 Pl Web Page: City: Houston Space Risology Special Category: Space Risology Special Category: None Project Type: GROUND Solicitation / Funding Solicitation / Funding None Risolation Space Center Project Type: GROUND Solicitation / Funding None Solicitation / Funding None of Pab Decres: No. of Phot Decres: No. of Phot Decres: No. of Phot Decres: No. of Phot Decres: No. of Master's Candidates: No. of Master' Degrees: No. of Master' Candidates: No. of Master' Degrees: No. of Master's Candidates: No. of Master' Degrees: No. of Master' Candidates: No. of Master' Degrees: No. of Bachelor's Candidates: No. of Master' Degrees: No. of Rachelor's Candidates: No. of Master' Degrees: No. of Rachelor's Candidates: No. of Master' Degrees: No. of Rachelor's Candidates: No. of Master' Degrees: No. of Rachelor's Candidates: No. of Master' Degrees: No. of Master' Degrees: No. of Rachelor's Candidates: No. of Master' Degrees: No. of Rachelor's Candidates: No. of Master' Degrees: No. of Rachelor's Candidates: No. of Rachelor's Candidates: No. of Master' Degrees: No. of Rachelor's Candidates: No. of Rachelo		A US-Russian Collaborative Proposal for Data Collection in HERA: The Relationship between Composition,		
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Space Biology Cross-Element Discipline: None PI Email: suzame.Usel/dinasa.cov. Fax: FY Pl Organization Type: NASA CENTER Phone: Organization Type: NASA Johnson Space Center PI Address 1: 2101 E NASA Pkwy PI Address 2: SK311 PI Web Page: City: Houston State: TX Zip Code: 77058 Congressional District: 36 Comments: Project Type: GROUND Solicitation / Funding Source: Appendix F: International Life Sciences Research Amountment of Manuel Control of Manu	Human Research Program Risks:			
Discipline: None Space Biology Special Category: None PI Email: suzanne.thelli@nasa.gov Fax: FY PI Organization Type: NASA CENTER Phone: Organization Name: NASA Johnson Space Center PI Address 1: 2101 E NASA Pkwy PI Address 2: SK311 PI Web Page: City: Houston State: TX Zip Code: 77058 Congressional District: 36 Comments: Project Type: GROUND Solicitation / Funding Source: Resembly Republic Project Project Type: GROUND Solicitation / Funding Source: Resembly Republic Project Research Companies Resembly Republic Republic Research Corporation Project Research Corporation Professional Researc	Space Biology Element:	None		
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Contact Monitor: Williams, Thomas Contact Phone: 281-483-8773 Contact Email: thomas.j.will1@nasa.gov Flight Program: NOTE: Element change to Human Factors & Behavioral Performance; previously Behavioral Health & Performance (Ed., 1/17/17) Key Personnel Changes/Previous PI: COI Name (Institution): Gushin, Vadim M.D., Ph.D. (Institute of Bio-Medical Problems RAS) Vinokhodov, Alla Ph.D. (Institute of Bio-Medical Problems RAS) Contractor, Noshir Ph.D. (Northwestern University) DeChurch, Leslie Ph.D. (Georgia Tech Research Corporation) Grant/Contract No.: NNX16AQ48G Performance Goal No.:	No. of Master's Candidates:			
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Flight Assignment: (Ed., 1/17/17) Key Personnel Changes/Previous PI: Gushin, Vadim M.D., Ph.D. (Institute of Bio-Medical Problems RAS) Vinokhodov, Alla Ph.D. (Institute of Bio-Medical Problems RAS) Contractor, Noshir Ph.D. (Northwestern University) DeChurch, Leslie Ph.D. (Georgia Tech Research Corporation) Grant/Contract No.: NNX16AQ48G Performance Goal No.:	Flight Program:			
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Task Book Report Generated on: 04/25/2024

How crew composition and interpersonal relations affect crew functioning and effectiveness has been and continues to be of interest to both NASA and the Institute of Biomedical Problems (IBMP), whose research informs operations for the Russian Federal Space Agency. Over time, research from these agencies has evolved with different emphases. NASA-sponsored team composition research heavily relies on trait and network theories. It seeks to identify traits and combinations of traits that can be used to compose, train, and manage highly effective crews (Team Gap 8). IBMP-sponsored research mostly has moved away from trait-based approaches toward an idiographic (in-depth, heavily descriptive) approach to researching crew interpersonal relations.

We propose a cutting-edge integrative model which details how team member attributes, combinations thereof, and interpersonal perceptions affects the emergence of relational states in isolated and confined environments (ICE). Specifically, we propose to develop and empirically test a process model of interpersonal relationship formation in ICE. As part of our research, we also will examine the validity of the Personal Self-Perception and Attitudes (PSPA), which is a standardized measure utilized by the Russians to assess interpersonal compatibility and relations.

We propose a 3-year US-Russian collaborative effort in which we leverage existing data previously collected in the Mars 105 and Mars 500 simulations; collect new data using analog-definition research in the 2017 and 2018 HERA campaigns; and use a novel data analysis approach. Our efforts will result in research products critical to Team Gaps 1, 4, and 8, including an empirically supported model, recommendations for a path forward for international collaboration in research related to team composition and interpersonal relations in ICE, and a summary of validation evidence for the PSPA with recommendations for whether it should be included in NASA's standardized measures for analog environments.

Rationale for HRP Directed Research:

Research Impact/Earth Benefits:

Task Description:

Task Progress: New project for FY2016.

Bibliography Type: Description: (Last Updated: 02/15/2024)