



**2019 NASA Human Research Program Investigators' Workshop
Annual Conference**
Galveston, Texas, USA
January 22-25, 2019

ATLAS Lab & SONIC Research Group Presentations at IWS 2019

TUESDAY AFTERNOON

Session: Team Composition and Support: A Dynamic Challenge for Long-Duration Missions

3:20pm – 3:40pm, Galleon II & III

N. S. Contractor, B. Antone, A. Lungeanu, S. T. Bell, & L. A. DeChurch

Validating Models Of Team Composition Decisions For Long-duration Space Exploration (Project CREWS)

4:00pm – 4:20pm, Galleon II & III

L. A. DeChurch, A. Lungeanu, P. Park, & N. S. Contractor

CREST: Crew Recommender For Effectively Switching Tasks (Project Team Task Switching)

WEDNESDAY AFTERNOON

Session: Autonomy and Decision Making in Future Spaceflight Missions

2:03pm – 2:21pm, Galleon II & III

L. A. DeChurch, A. A. Niler, J. R. Mesmer-Magnus, & **N. S. Contractor**

Task Management In Space Multiteam Systems (Project Team Task Switching)

2:39pm - 2:57pm, Galleon II & III

I. A. Gokhman, G. Plummer, **L. A. DeChurch**, S. T. Bell, M. Vazquez, & N. S. Contractor

Crew Information Sharing And Decision Making Over Time (Project US Russia Collaboration, PI: Bell)

THURSDAY MORNING

Session: Team Adaptation in Extreme Environments

10:10am – 10:30am, Galleon II & III

L. A. DeChurch, K. Rudra, & **N. S. Contractor**

Using Interaction Data To Predict Interpersonal Relationships In Space Multiteam Systems (Project SCALE)

10:30am – 10:50am, Galleon II & III

N. S. Contractor, **L. A. DeChurch**, L. E. Larson, I. A. Gokhman, H. Wojcik, & S. T. Bell

Collective Intelligence In Space Crews (Project CREWS)



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THURSDAY AFTERNOON

4:00pm – 5:30pm, Exhibit Hall A

Poster Session B: Human Factors and Behavioral Performance

L. E. Larson, D. Gomez-Zara, L. A. DeChurch, S. T. Bell, & N. S. Contractor,
Informal Leadership In Space Crews (Project CREWS)

M. Schultz, L.A. DeChurch, & N.S. Contractor
Networks As Filters: Selective Information Transmission In Conversations Aboard Skylab (Project SCALE)

A. Lungeanu, L. A. DeChurch, & N. S. Contractor
The Emergence And Development Of Crew Shared Mental Models: An Agent-based Model (Project SCALE)

N. Izadinia, L. A. DeChurch, N. S. Contractor, & A. Waechter
Using Optimization Methods To Benchmark Performance In Space Teams (Project Team Task Switching)

K. Tanaka, N. Ennab, L.A. DeChurch, & N.S. Contractor
Antecedents And Outcomes Of Network Acuity In Space Multiteam Systems (Project SCALE)

J. R. Mesmer-Magnus, A. A. Niler, G. Plummer, L. A. DeChurch, & N. S. Contractor
Team Cognition In Context: A Meta-analysis (Project SCALE)

G. Plummer, L. A. DeChurch, J. R. Mesmer-Magnus, J. Johnson, J. & N. S. Contractor
The Development Of Crew Shared Cognition (Project SCALE)