NOTES
Publications are listed in reverse chronological order, and include journal articles, abstracts, and technical reports. MVL student theses are indexed in a separate list, "Man-Vehicle Laboratory Theses," which is available upon request. Copies of all publications are available in limited numbers upon request. When requesting publications, give the MVL publication number listed with each citation. Numbers are assigned when author makes publication available for distribution, usually when it is accepted for publication or is in press. Some publication numbers are missing from sequence because the manuscripts originally assigned to them were reassigned to the year of actual publication in the open literature.
2017


17.03 Young, L.R., Natapoff, A., Greenberg, J., “The Harvard-MIT PhD Program in Bioastronautics”, NSBRI HRP Investigators’ Workshop, Galveston, TX, Jan. 23-27, 2017

17.04 Young, L.R., “The Harvard-MIT HST-MEMP Bioastronautics PhD Program”, Poster for NSBRIP HRP, Investigators’ Workshop, Galveston, TX, Jan. 23-27, 2017

17.05 De Sá Teixeira, N. A., Hecht, H., Artiles, A. D., Seyedmadani, K., Sherwood, D. P., & Young, L. R. “Vestibular stimulation interferes with the dynamics of an internal representation of gravity”. The Quarterly Journal of Experimental Psychology, 70:11, 2290-2305, DOI: 10.1080/17470218.2016.1231828


2016


16.08 Young, L.R., Karmali, F., Galvan-Garza, R., Clark, T.K., “Changing Gravity Levels – Manual Control and Spatial Orientation Adaptation During Hypo-Gravity Centrifugation”, (Slides), IAC 2016, Mexico

2015


15.20 Diaz, A., Young, L.R., "Effects of Artificial gravity on the Cardiovascular System: Computational Approach", (abstract), 66th International Astronautical Congress, October 12-16, 2015, Jerusalem, Israel


15.25 Diaz, A. Sherwood, D., Beckers, N. W. M., Galvan-Garza, R. C., Natapoff, A., Oman, C. M., Clark, T. K., Karmali, F. Young, L. R. Development of a Countermeasure to Enhance Sensorimotor Adaptation to Altered Gravity Levels. National Space Biomedical Research Institute Symposium, May 7, 2015, Houston, TX.


15.29 Diaz Artiles, A., Heldt, T., Young, L.R., "Artificial gravity and Ergometer Exercise on the Cardiovascular System", manuscript submitted to JAP, November 2015


2014


14.04 Young, L.R., “Sensory-Motor Adaptation What Have We Learned in 40 Years?”, ppt presentation , WCBR 2014, Steamboat Springs, CO


14.12 Young, L.R., Beckers, N.W.M., Karmali, F., Clark, T.K. "Countermeasures to Reduce Sensorimotor Impairment and Space Motion Sickness Results from Altered Gravity Levels” NASA Human Research Program Investigator’s Workshop, Feb. 11-13, 2014, Galveston, TX (abstract and presentation).


14.22 Young, L. "Retirement Remarks: MIT President’s Dinner”, MIT Museum, May 21, 2014


2013

13.02 L. R. Young¹, C. M. Oman¹, T. K. Clark¹, ², S. E. Trichler¹, K. R. Duda², S. J. Wood³, and A. Estrada⁴ SENSORIMOTOR DISPLAYS AND CONTROLS TO ENHANCE SAFETY OF HUMAN/MACHINE COOPERATION DURING LUNAR LANDING: PROJECT REVIEW, Abstract, Human Research Program Investigators' Workshop, Galveston, TX, Feb. 12-14, 2013


13.10 Young, L., "MJ and Adaptation From the 1960's How Our Shared Interest in Aviation, Control Theory and Vestibular Function got started", (ppt)Symposium on Sensing Motion for Action a tribute to the career of Geoffrey Melvill Jones, July 13-14, 2013, Montreal, Canada


13.15 Young, L.R., Trigg, C., "Design of a compact Short Radius Centrifuge Artificial Gravity Test Platform", abstract, presented at the 64th International Astronautical Congress, (IAC), Beijing, China, 23-27 September, 2013


13.17 Young, L.R., “Padding- From Helmets to Towers” ppt. slides presented at the 2013 20th ISSS Congress, Bariloche, Argentina, Aug 4, 2013


13.20 Young, L.R., “Models for Adaptation of the VOR”, Motion Sensing, Montreal, July 14, 2013


2012

12.01 Duda, K., Jarchow, T., Young, L., “Squat Exercise Biomechanics During Short-Radius Centrifugation”, Aviation, Space, and Environmental Medicine, Vol. 83, No. 2, February 2012


12.11 void

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12.56 van Loon, J.J.W.A., Young, L.R., etal., “An Centrifuge for Exploration and Exploitation Research” manuscript for publication in ANNALES KINESIOLOGIAE, received 2012-07-12


12.64 MVL@50 – Program Brochure, September 14, 2012

12.65 Young, L.R., “My Second Quarter Century with the MIT Man-Vehicle Lab (1987-2012), included in the MVL @50 Program Brochure, September 14, 2012

2011

11.01 see 12.28


11.16 Bachman, L.L.Jr., Mateus, J., Hargens, A.R., "Hemodynamics of Bone and Muscle in the Lower Limb with Head-up and Head-down Tilt", 18th IAA Humans in Space Symposium, April 11-15, 2011, Houston, TX


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11.36 Young, L.R., Bernard-Demanze, L., Dumitrescu, M., Magnan, J., Borel, L., Lacour, M, “Does Fear of Falling Influence Control of Posture? A comparative study in healthy subjects and compensated unilateral vestibular loss patients”, CNRS/Aix-Marseille Univ., UMR 6149 Neurosciences Integratives et Adaptatives, Marseille, France

11.38 Young, L.R., “PhD Bioastronautics Training Program”, American Society for Gravitation and Space Biology, November 2-6, 2011, slides


11.40 Young, L.R., YT Li Memorial – Draft Sept. 2, 2011


2010

10.01 Young, L.R., Duda, K.R., Clark, T.K., Stimpson, A.J. and Oman, C.M. “Sensorimotor Interaction with Vehicle Displays and Controls to Enhance Human-Machine Cooperation During Precision Lunar Landing, NASA Human Research Program Investigator's Workshop, Houston, TX, February 2-4, 2010


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10.14 see 10.15


10.18 See 10.20


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10.23 Young, L.R., “VOR Adaptation”, Reykholt, Iceland, Barany Satellite Meeting to Honor Jay Goldberg, August 2010.


10.40 Sheehan, Scott, Jarchow, Thomas, Young, Laurence R., “Artificial Gravity: Head turn Velocity Modulatinof Cross-Coupled Stimulus Magnitude”, Poster

2009


09.09 Young, L.R. “Cutting Wholesome Sports”, NY Times, May 3, 2009


09.11 Young, L.R., “Comments on the Influence of Dr. Robert Seamans”, Giant Leaps Symposium, June 10-12, 2009, MIT, Department of AeroAstro


09.16 Jarchow, T., Young, L.R., “Neurovestibular Effects of Bed Rest and Centrifugation”, Journal of Vestibular Research, Special Issue for the Strategic Planning Activity on Aerospace Medical and Human Factors Challenges and Celebration Honoring Dr. Charles M. Oman, Director of the MVL on this 65th Birthday, March 5, 2009, MIT, Marlar Lounge, Room 37-252, Volume 20, Numbers 1,2, 2010, 45-51, IOS Press

09.17 Alley, M., Christou, G., Goel, R., Son, S., Young, L. Experimental Studies of Mitigation Materials for Blast Induced TBI, 16th APS Tropical Conference on Shock Compression of Condensed Matter, Nashville, USA, 28 June - 3 July, 2009.

09.18 Young, L.R., Yajima, K., Paloski, W., “Artificial Gravity Research to Enable Human Space Exploration”, pp. 1-37, (Study Group 2.2 Final Report) International Academy of Astronautics (IAA) September 2009


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08.02 Young, Laurence R., “Short Radius Centrifugation is a Practical Space Flight Countermeasure”, (abstract) 79th AsMA Annual Scientific Meeting, May 11-15, 2008, Boston, MA

08.03 Young, Laurence R., “Lunar sensorimotor research”, (abstract), Aerospace Medical Association 79th AsMA Annual Scientific Meeting, May 14, 2008


08.05 Young, L.R, Jarchow, T., Elias, P., Pouly, J., Sheehan, S., Mateus, J., “Adapting to Coriolis Cross Coupled Head Movements at Centrifuge Speeds up to 30 RPM1”, (abstract), XXV Barany Society Meeting, March 31, 2008, Kyoto, Japan

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08.08 Garrick-Bethell, I., Jarchow, T., Hecht, H., Young, LR, “Vestibular adaptation to centrifugation does not transfer across planes of head rotation”, JVR, 18 (2008) 25-37

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08.31 Opperman, R., Waldie, J., Newman, D.J. “EVA Injury, Comfort and Protection: Improving the Plight of the Hand and Shoulder for the Constellation Program”, International Conference on Environmental Systems (ICES), San Fran, IL July 2008 (Best Student Paper Award).


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07.32 Mateus, Jaime and Young, Laurence R., “Sleep consolidates adaptation to artificial gravity”, ESA Symposium,Dec. 10-12, 2007, Technology for Artificial Gravity and Microgravity Simulation, ESTEC, Noordwij, The Netherlands

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07.48 see 07.28


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06.05 Harris, Laurence R., Dyde, Richard, Oman, Charles M., Jenkin, Michael, “Visual cues to the direction of the floor”, 7th Symposium on the Role of Vestibular Organs in Space Exploration, June 7-9, 2006, ESTEC, Nordwijk, the Netherlands, http://www.congrex.nl/06a07/
06.06 Aoki, Hirofumi, Oman, Charles M., Natapoff, Alan, Liu, Andrew, “The effect of the configuration, frame of reference, and spatial ability on spatial orientation during virtual 3-dimentional navigation training”, Abstract submitted to Seventh Symposium on the Role of Vestibular Organs in Space Exploration, June 7-9, 2006 Nordwijk, the Netherlands, http://www.congrex.nl/06a07/

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2004


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04.05 Young, L.R., “Testimony to US House of Representatives, Committee on Science Hearing on Perspectives on the President’s Vision for Space Exploration”, March 10, 2004, Washington, DC.


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04.14 Jarchow, T., Young, L.R., “Adaptation to head movements during short radius centrifugation”, presented at the 55th International Astronautical Congress. October 4-8, 2004. Vancouver, Canada

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2001


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01.10 See 02.23.

01.11 See 02.08.

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2000


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95.5 Young, L.R. “Looking around: Thirty-five years of oculomotor modeling,” (replaces 94.29 “Oculomotor control: Less than meets the eye,”) Annals of Biomedical Engineering, 23:456-466.

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94.25 Robinson, S., Modestino, S. & Zavada, M. “Effects of spaceflight on the perception of vertical: Human neurovestibular experiments on Spacelab Life Sciences 2,” paper, Man-Vehicle Laboratory, Center for Space Research, MIT, Cambridge, MA.


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94.33 Frainier, R. and Groleau, N. “Real-time remote scientific model validation.” NASA Ames Research Center, 1994/95 (?)


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92.26 Refer to 93.21

92.27 Refer to 93.22

92.28 Refer to 93.23

92.29 Refer to 93.24

92.30 Refer to 93.10

92.31 Refer to 93.7

92.32 Refer to 93.8

92.33 VOID


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91.7A (Optional) paper copy of viewgraph presentation for 91.7

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88.9a (Optional) paper copies of presentation viewgraphs for paper 88.9


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