

Abstract Submitted
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Development of a radiation monitoring program for a multidisciplinary ultrafast research facility in collaboration with the Advanced Laser Light Source PAUL GUEYE¹, Hampton University, JEAN-CLAUDE KIEFFER, JEAN-PHILIPPE MOREAU², INRS Énergie, Matériaux et Télécommunications — Monitoring radiation exposure and radiation safety trainings of users in ultrafast high power lasers science is not as stringent as other fields. Most national laboratories and centers, because of the insufficient in-house expertise of the scientists involved in this research, that usually originate from the plasma or optical sciences communities, rely on collaborators such as those from nuclear/high energy physics. With the international effort to build a US based multidisciplinary ultrafast research facility (presented in another poster), a dedicated program that will address and implement the appropriate procedures, including acquiring exhaustive sets of data, developing dedicated tracking training tools, etc., is being developed. This program is using the newly operational international facility, the Advanced Laser Light Source (ALLS), located in Varennes, Canada. Dedicated monitoring devices were recently installed for that purpose. Description of the concept and plans for this program will be presented along with very preliminary data newly acquired at this facility.

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