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Subject: Remote Chemistry Laboratory Sessions

Hello to All,

I think you all may know me as one of the TA's and graders for the chemistry department. We are dealing with some complex issues related to distance learning in chemistry and I wanted to make you aware of some of the capabilities and experience I have that may be of use in our unique chemistry environment.

In addition to my technical scientific background I am also an experienced technical videographer and video/audio editor. Attached is a list of technical projects that I have completed for Westinghouse Nuclear Services Division related to training, promotion and safety of mostly field service equipment and techniques for nuclear power plants. For the most part these are rigorously edited and narrated projects with loads of on-screen text and occasionally some fairly simple animations that I created by breaking apart technical drawings. What I am proposing here would be simpler and economical to produce. I have all the skills and required equipment, including cameras, camera crane, lights, audio recording, teleprompter and computer processing capabilities for editing. Most of the Westinghouse videos run from 15-60 minutes.

What I visualize is having two or three of the highly qualified laboratory instructors prepare the prelab material and setup the experiment. We would film the prelab instruction as presented with visuals of slides and audio. Then demonstrate the lab with as many takes as necessary, recording synchronous sound. One of the lab instructors would be the "instructor" and the other(s) the student observers who would follow instructions and interact with the appropriate questions. I would edit this into a concise lab session that could be in downloadable format so the students would be able to download at off hours when the internet is not overloaded, as I anticipate it may be with everyone in the country trying to work remotely. I think we could probably turn-around a few labs a week if we wanted to be serious about it.

If anyone is interested in discussing this further I would be happy to meet with you and show you a project and discuss the options. Think of it as a 30 minute "TV Cooking Show". (As a matter of fact, as a family archive project, I recently completed a cooking project in a home kitchen on making the Italian pasty of Stuffoli.)

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Summary of InnoVision MultiMedia Projects with Westinghouse

10/1/2018

John Esposito - InnoVision MultiMedia

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| Number | Project Title | Fiscal Year | General Purpose |
|--------|---|-------------|-------------------|
| 1 | Westinghouse Wolf Creek Evaluation | 2001 | Field Evaluation |
| 2 | RRTN Tooling System Checkout and Turnaround | 2001 | Pre-Job Briefing |
| 3 | Westinghouse Safety Video | 2001 | Human Performance |
| 4 | CRDS Pre-job Briefing | 2001 | Pre-Job Briefing |
| 5 | RV Stud Tensioning/Detensioning | 2002 | Pre-Job Briefing |
| 6 | Biach Electric Stud Drive Tool | 2002 | Pre-Job Briefing |
| 7 | Portable In-Mast Sipping | 2002 | Pre-Job Briefing |
| 8 | Thimble Expansion | 2002 | Pre-Job Briefing |
| 9 | Telescope In-Mast Sipping | 2002 | Pre-Job Briefing |
| 10 | Vogtle 1 UEC comparison | 2002 | Field Evaluation |
| 11 | Thimble Expansion | 2002 | Pre-Job Briefing |
| 12 | Underwater Flange Cleaner Turnaround | 2002 | Pre-Job Briefing |
| 13 | Robinson Cleaning Comparison | 2002 | Field Evaluation |
| 14 | WesDyne Robot Promo | 2003 | Promotional |
| 15 | Three Way Communication | 2003 | Human Performance |
| 16 | Swagelok Seal Table | 2003 | Pre-Job Briefing |
| 17 | Power Point Option for WesDyne | 2003 | Marketing |
| 18 | Additional photos and CD | 2003 | Still Photography |
| 19 | Fuel Transfer Sysem Operation | 2003 | Pre-Job Briefing |
| 20 | Wesdyne Marketing CD photo/video | 2003 | Marketing |
| 21 | Thimble Plug Handling Tool | 2003 | Pre-Job Briefing |
| 22 | RCCA Change Tool | 2003 | Pre-Job Briefing |
| 23 | Burnable Poison Rod Assembly Tool | 2003 | Pre-Job Briefing |
| 24 | Automated Fuel Inspection System | 2003 | Pre-Job Briefing |
| 25 | Flux Thimble Cleaning Equipment Turnaround | 2004 | Pre-Job Briefing |
| 26 | SureTrac Pre-Job Brief | 2004 | Pre-Job Briefing |
| 27 | Underwater Cutting FT Removal TA | 2004 | Pre-Job Briefing |
| 28 | WABA Insertion | 2004 | Pre-Job Briefing |
| 29 | In Mast Sipping Computer Upgrade | 2004 | Maintenance |
| 30 | Diablo Canyon Chem Cln Eval | 2004 | Field Evaluation |
| 31 | Seal Table Disassembly | 2004 | Pre-Job Briefing |
| 32 | Repositioning | 2004 | Pre-Job Briefing |
| 33 | Assembly/Disassembly Canopyless CETNA | 2004 | Pre-Job Briefing |
| 34 | Assembly/Disassembly Version 3 CETNA | 2004 | Pre-Job Briefing |
| 35 | Phased Array Dovetail Scanner | 2004 | Pre-Job Briefing |
| 36 | CETNA Conversion | 2005 | Pre-Job Briefing |
| 37 | ROS Camera/Light Field Maintenance | 2005 | Maintenance |
| 38 | F5 Fuel Movement Specification | 2005 | Pre-Job Briefing |
| 39 | ICI Thimble Support Plate | 2005 | Pre-Job Briefing |
| 40 | Root Cause Analysis | 2005 | Human Performance |
| 41 | CRDS Button Height Turnaround | 2005 | Maintenance |
| 42 | St Lucie ICI Thimble Replacement | 2005 | Pre-Job Briefing |
| 43 | SONGS HP Project Diver Donning and Doffing Dosimetry etc. | 2006 | Utility Request |
| 44 | Wesdyne still photos | 2006 | Still Photography |
| 45 | WesDyne Promotional Video | 2006 | Promotional |
| 46 | Human Performance Event Investigation | 2006 | Human Performance |

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| 47 | ICI Thimble Replacement Project | 2006 | Pre-Job Briefing |
| 48 | Human Performance Event Investigation | 2006 | Human Performance |
| 49 | Nozzle Scanner for WesDyne | 2006 | Marketing |
| 50 | CRDS Button Height Turnaround | 2007 | Maintenance |
| 51 | Flux Thimble Tube Probe Pusher Turnaround | 2007 | Maintenance |
| 52 | Containment Video - Columbia Generating | 2007 | Field Promotional |
| 53 | CSCA | 2007 | Pre-Job Briefing |
| 54 | Flangebot | 2007 | Pre-Job Briefing |
| 55 | CRDS Calibration Tool | 2008 | Pre-Job Briefing |
| 56 | Davit Promotional Video and 6 Ft. Conference Banner | 2008 | Marketing |
| 57 | Flangebot | 2008 | Pre-Job Briefing |
| 58 | CRDS Calibration Tool | 2008 | Pre-Job Briefing |
| 59 | CSCA Modification | 2008 | Pre-Job Briefing |
| 60 | RCP Photos | 2008 | Hot area photography |
| 61 | ULBW Promotional Video - Phase 1 - Project Incomplete | 2008 | Promotional |
| 62 | MSIP Training Video | 2008 | Pre-Job Briefing |
| 63 | MSIP Mobile rigging system | 2008 | Pre-Job Briefing |
| 64 | PaR Refueling Machine | 2009 | Pre-Job Briefing |
| 65 | Update MSIP Executive Summary Video | 2009 | Promotional |
| 66 | Global Plant Engineering Promo Video | 2009 | Marketing |
| 67 | Modify and copies Global Plant Engineering | 2010 | Marketing |
| 68 | Steam Drum Mockup | 2009 | Promotional/Instruction |
| 69 | RXCC Change Fixture | 2009 | Pre-Job Briefing |
| 70 | HydraNut Pre-Job Briefing Video | 2009 | Pre-Job Briefing |
| 71 | HUP Planned Interactive Observation | 2010 | Human Performance |
| 72 | WABA Tool | 2011 | Pre-Job Briefing |
| 73 | IMS Promotional video | 2011 | Promotional |
| 74 | Hup Management Message 2011 | 2011 | Internal Communication |
| 75 | GOTA Tool Training video | 2012 | Pre-Job Briefing |
| 76 | Lightweight CEA Handling tool | 2012 | Pre-Job Briefing |
| 77 | Modify HuP Mgmt Message for 2012 | 2012 | Internal Communication |
| 78 | Entergy Fuel Handling HuP | 2012 | Utility Human Performance |
| 79 | ICI Pulling tool | 2012 | Pre-Job Briefing |
| 80 | Telescope Sipping | 2013 | Pre-Job Briefing |
| 81 | RV Head Set - Based on Field Video | 2013 | Pre-Job Briefing |
| 82 | CETNA Prejob Brief | 2013 | Pre-Job Briefing |
| 83 | SCOUT Tool Video | 2014 | Pre-Job Briefing |
| 84 | Fuel Anchor Installation and Removal - Detailed | 2018 | Pre-Job Briefing |
| 85 | Fuel Anchor Installation Executive Summary - 6 minute | 2018 | Promotional |