



**Applied Materials Technologies Inc.**

A professional design and engineering firm

**ALFRED (BUCK) D. WYCKOFF JR.**  
**TECHNICAL GRAPHICS SPECIALIST**  
[bwyckoff@buckward.com](mailto:bwyckoff@buckward.com)

Mr. Wyckoff is a Technical Graphics Specialist with Applied Materials Technologies Inc. He is also president of Buckward Digital Services, Inc. and he specializes in technical 3D computer graphics, animation and video production. Mr. Wyckoff has worked in the forensic demonstrative visualization field since 1990 and has experience with CAD since 1987. His technical background in science and engineering fields makes him uniquely qualified to interface with experts from a variety of disciplines, understand the often highly technical concepts and work with the experts to produce clear and concise visual aids. In addition to graphics production, Mr. Wyckoff has worked extensively with onsite accident investigation teams on several major petrochemical plant incidents in the production, logging and management of photographic and video documentation, supervision and maintenance of investigation team cameras and equipment and the production of daily updated plant drawings for site status and OSHA/CSB meetings.

As a technical graphics specialist, Mr. Wyckoff has produced hundreds of 3D computer animations involving fires, explosions, auto accidents, patent disputes, product failures and other work related incidents. He started work in this field with CH&A in 1990. There, he worked with in-house engineers for all their video and graphics production needs. Several high profile jobs include the Texas Phillips polyethylene plant explosion, the Nevada Pepcon rocket fuel plant explosion, the Louisiana IMC fertilizer plant explosion and the 1993 World Trade Center Bombing. His experience as a senior piper at Flour Engineering Inc. in the 1980's has allowed him to work comfortably in a plant setting and comprehend plant drawings and flow diagrams.

Mr. Wyckoff's formal education includes a B.S in Geophysics from the University of Houston. This education has proved valuable in graphics work related to the oil and gas exploration industry. Also, Mr. Wyckoff has extensive experience in computer graphics hardware and software. He built his first graphics computer in 1990, then later, designed and implemented the vast array of specialty computer systems for animation, audio and video production work in use at Buckward Digital Services, Inc.

**Areas of Specialization**

Petrochemical Plant 3D Modeling and Animation Oil & Gas Exploration Visualization Accident Site Documentation Faro Probe, Laser Scanning & Site Surveys Conversion of Scans & Surveys to CAD and 3D General 2D and 3D Graphics and Animation Video Acquisition and Post Production CAD Drafting

**Mr. Alfred (Buck) D. Wyckoff Jr.**

### **Education**

University of Michigan 1980 Bachelor of Science in Geophysics - University of Houston  
1986

### **Continuing Technical Education**

Piping Design School - Fluor Engineering Inc. 1980 Advanced Piping Design - Fluor  
Engineering Inc. 1982

### **Computer Skills**

Extensive computer hardware experience in all aspects to computer use and integration. Strong familiarity with several Microsoft software products, Autodesk AutoCAD and 3DS Studio MAX (including programming in AutoCAD AutoLisp & MAXScript). Intimate knowledge of Adobe Photoshop, Premier Pro, After Effects, Dreamweaver, Soundbooth, InDesign and Illustrator. Also, extensive experience with interfacing computers and video playback devices with monitors, projectors and the generation of all manner of video formats and codecs.

### **Positions Held**

Buckward Digital Services, Inc., Houston Texas Computer Graphics Specialist – 1998 to Present Founder 1998

CH&A Corporation (currently EFI), Kingwood, Texas Computer Graphics Specialist – 1990 to 1998

Energy Graphics Inc., Houston Texas Base Map Production and Data Management, 1985 to 1990 Developer & Manager - AutoCAD Production Department

Litton Aero Services (a subsidiary of Western Geophysical), Houston, Texas Geophysical Data Clerk, 1984 to 1985

Fluor Engineering Inc. (currently Fluor Daniel), Houston, Texas Senior Piping Designer, 1980 to 1984

