

## Henry A. Romero, PhD, CPE

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### SKILLS

- Fifteen years' experience of Human Factors Engineering support during engineering design of large capital projects. Activities include specification development, pre-design analysis and support, HFE integration plan development, and engineering review and support. Recent projects include:
  - Wheatstone LNG (Client: Bechtel/Chevron)
  - Australian Pacific LNG (Client: Bechtel/ConocoPhillips)
  - Wheatstone Offshore Living Quarters (Client: Chevron)
  - Angola LNG (Client: Bechtel/Chevron)
  - Gorgon (Client: KBR/Chevron)
  - Port Arthur Crude Expansion Project (Client: Bechtel/Shell-Motiva)
  - Saudi Kayan LNG (Client: KBR/Saudi Aramco)
  - Cerro Negra Debottlenecking (Client: KBR/ExxonMobil)
- Intimately familiar with ASTM, ANSI, ISO, U.S., UK and Australian government, and professionally accepted standards, regulations and guidelines applicable to ergonomics and human factors.
- Usability and layout reviews of nuclear and petrochemical control rooms and control software
- Usability reviews of large manufacturing equipment and associated control systems
- Intimately familiar with several industry specifications regarding human factors engineering and ergonomics including Shell (DEPs), Chevron (SIDs), ExxonMobil (GPs), SEMI S8, Xerox and Intel.
- Performing safety analyses using Department of Energy (SARs) and Department of Labor (Process Hazards Analysis from PSM) requirements
- Performing work area evaluations and task analyses in office and non-office environments for the purposes of reducing the likelihood of musculoskeletal disorders while improving the overall efficiency, productivity, and quality of the system
- Developing and presenting safety, ergonomics and human factors training programs
- Evaluating and relating the job physical requirements of work tasks to the capabilities of workers
- General laboratory safety, respiratory protection, fire protection, laser safety, and manufacturing safety
- Developing and implementing efficient and effective hazard prevention and control activities
- Project management and team leadership
- Evaluating user-computer interfaces using human factors engineering guidelines, especially internet interfaces
- Establishing corporate ergonomics programs in Fortune 500 and smaller companies

### EDUCATION / CERTIFICATIONS

- Ph.D. in Industrial Engineering, Major: Ergonomics, May, 1997: Texas Tech University
- M.S. in Industrial Engineering, Major: Ergonomics, Dec., 1990: Texas Tech University
- B.S. in Chemical Engineering, December, 1986: Texas Tech University
- CPE: Certified Professional Ergonomist

## PROFESSIONAL SOCIETIES

- Member of the Human Factors and Ergonomics Society
- Member of the American Society of Safety Engineers
- Member of the International Order of the Engineer

## EXPERIENCE

PHS Concepts, Inc.,  
Houston, TX,

Senior Consultant / Vice President  
December 2004 to Present

- Work has included engineering design support of petrochemical facilities and major rotating equipment, HFE accident reconstruction work, worker safety ergonomics in office and non-office environments, and general facility safety including OSHA, STOP, and other behavioral safety program implementation in a manufacturing environment.
- Mentor and train PHSC Consultants
- Develop human factors implementation plans using multiple client and international standards
- Provide technical expertise and interpretation of the Human Factors Engineering codes and standards including Australian regulations, standards, codes of practice, international safety standards and client Safety-in-Design applied to the project.
- Evaluate design drawings and 3D models for adherence to Human Factors Engineering requirements.
- Prepare & conduct Human Factors Engineering training for vendors, engineers, designers, and general technical staff.
- Coordinate and direct projects, making detailed plans to accomplish goals and directing the integration of technical activities.
- Develop and implement policies, standards and procedures for the engineering and technical work performed.
- Consult or negotiate with clients to prepare project specifications.
- Prepare proposals, execution statements, schedules, and estimates of manhours

Halliburton/KBR, Inc  
Houston

Corporate Ergonomist  
October, 1998 to December 2004

- Developed the corporate human factors and ergonomics program for the Fortune 150 global corporation
- Provided ergonomics and human factors engineering support to field staff and engineering designs.
- Responsible for developing the requirements, tools, methods, programs, and resources for corporate program implementation.
- Corporate program focused on reactive and proactive aspects of work-related musculoskeletal disorders as well as optimizing human performance in new equipment designs.
- Worked on implementing human factors engineering principles into Kellogg Brown & Root processes and Halliburton Energy Services vehicle designs.

Self-employed  
Richland, WA

Human Factors Consultant  
February 1997 to October, 1998

- Provided a variety of services including program development, forensics analysis, ergonomics consulting services, and training.

- Clients included Fluor Daniel Hanford, Lockheed-Martin Hanford, Pillsbury, Co., Washington State University, Environmental Science Research Foundation, Goiccochea Law offices, Kennewick General Hospital, Simplot, Duke Engineering Services Hanford, and others.

**Hanford Environmental Health Foundation**  
Richland, WA

**Ergonomics Director**  
Nov. 1995 to Feb. 1997

- Developed and implemented a site wide ergonomics program for the 12,000 employee Department of Energy Hanford site performing activities in office, construction and industrial environments.
- Involved close coordination with industrial hygienists, first-line and top management, medical providers, nurses, and exercise physiologists.
- Daily duties included developing hazard prevention and control recommendations, developing and providing training, performing workstation evaluations.

**Lockheed Martin Idaho Technologies, Co**  
Idaho Falls, ID

**Senior Human Factors Scientist / Safety Representative**  
December 1991 to November 1995

- Co-developed Department of Energy procedure for writing Safety Analysis Reports and prepared several
- Provided hundreds of ergonomic workstation audits
- Prepared and presented multiple cumulative trauma disorders workshops
- Developed ergonomics standards and awareness programs
- Project leader on software development, human reliability, and safety analysis projects
- Responsible for safety in laboratory and office environments including laser, chemical, respiratory protection, fire protection, industrial hygiene, and ergonomics.
- Performed facility safety audits to 29CFR requirements.