### Bricken Technologies Corporation — Presentations:

2004: Synthesis Applications of Boundary Logic

- 2004: BTC Board of Directors Technical Review (quarterly)
- 2002: BTC Company Overview
- 2002: BTC Investor Presentation
- 2002: BTC Marketing Presentation
- 2002: Comesh Technical Review
- 2002: Changing the Rules of Digital Design
- 2002: Comesh Progress Report
- 2002: BTC Product Design
- 2002: BTC Technical Design Review
- 2002: Technical Validation Project: Summary Report
- 2001: CM85A
- 2001: The Circuit Design Generator

#### Bricken Technologies Corporation — Corporate:

- 2004: BTC Business Model
- 2002: Corporate Executive Summary
- 2002: BTC FAQ
- 2002: BTC Corporate Overview
- 2001: BTC Product Strategy
- 2001: BTC Business Sketch

### Bricken Technologies Corporation — Marketing:

- 2004: Boundary Mathematics Applications to Logic Synthesis: Empirical Results
- 2004: Iconic Tools Advance the State-of-the-Art
- 2004: Losp Synthesis System: Value Propositions
- 2003: Cell Libraries
- 2003: Circuit Design Generator Value Propositions
- 2002: FPGA Scaling Problems
- 2002: Marketing Focus
- 2002: Diversity and Scalability
- 2002: Deterministic Timing
- 2002: Execution Risks
- 2002: Problems Solved Uniquely by BTC Products
- 2002: ILOC Budget, Staffing, and Monthly Technical Milestones
- 2002: Chip Area Analysis
- 2002: Tool-chain Integration
- 2002: Seed Funding Milestones
- 2002: Use of Proceeds Three Alternatives
- 2002: Losp Functionality

- 2001: Packaging Options
- 2001: Comparative Products
- 2001: Cost Effectiveness of BTC Hardware Architectures
- 2001: FPGA Comparative Analysis
- 2001: CPLD and FPGA Markets

## Bricken Technologies Corporation — Products:

- 2004: Losp Synthesis System: Comparative Capabilities
- 2004: Losp Synthesis System: Technical Descriptions
- 2004: Losp Synthesis System: Overview
- 2004: ILOC Delay Reduction Comparative Performance
- 2004: ILOC Development Project Deliverables, Timetables, Agenda, and Milestones
- 2004: ILOC Development Final Report
- 2003: ILOC Development Overview
- 2003: ILOC Comparative Area Reduction
- 2003: ILOC Project Design Descriptions
- 2003: ILOC Formatting
- 2003: Comesh Computational Mesh Patent Draft
- 2003: Iconic Logic Optimizing Compiler Patent Draft
- 2003: Place and Route Refinements
- 2003: Place and Route Statistics
- 2003: Place and Route Examples
- 2003: ILOC Logic Reduction and Comesh Layout for the SP700
- 2003: ILOC Logic Reduction and Comesh Layout for the SP700 Technical Supplement
- 2003: Comesh Comparative Benchmarks
- 2003: Applications for Embedded Comesh
- 2002: State of the ILOC Code
- 2002: Occlusion Array Patent Draft
- 2002: Schematics for the Comesh Architecture
- 2002: Comesh Functional Model Illustrated Tour
- 2002: Comesh Cost of Silicon
- 2002: Comesh Specifications
- 2002: Comesh Encoding
- 2002: ILOC Implementation Validation
- 2001: Interface Protocols
- 2001: Computational Mesh

# Bricken Technologies Corporation — Technical:

- 2004: Top-down and Bottom-up Abstraction
- 2004: Spatial Symmetry in Logic
- 2004: The Advantages of Boundary Logic -- A Common Sense Approach
- 2004: Multiprocessing Tools
- 2003: Non-symbolic Proof
- 2003: ILOC Modular and Vector Abstraction
- 2003: I7 Abstraction
- 2003: Introduction to Boundary Logic with Sidebars
- 2002: Varieties of Adders

- 2002: From Sketch to Silicon
- 2002: Elusive Complexity
- 2002: Boundary Logic Applied to Circuitry
- 2002: Recursive Axiomatization of Boundary Logic
- 2002: CPU Architectures
- 2002: Conventional Interpretation of Boundary Logic Tools
- 2002: Occlusion Array Algebra
- 2002: Metalogic
- 2002: Nonsymbolic Logic
- 2002: Iconic Universe
- 2002: Pedagogical Coding
- 2002: On the Complexity of Boundary Logic
- 2001: Diagonalization of the Occlusion Array
- 2001: Using Occlusion to Evaluate Circuits
- 2001: CM85A: Occlusion Array
- 2001: CM85A: Algorithms
- 2001: CM85A: Metrics
- 2001: CM85A: Encoding
- 2001: CM85A: Schematics
- 2001: An Extended Example of Design Generation CM85A, a 4-bit Magnitude Comparator
- 2001: Programming Heuristics in Losp
- 2001: Boundary Logic Languages
- 2001: Boundary Logic Simplified
- 2001: Boundary Logic Notes for Randy Katz
- 2001: Design of Microelectronic Integrated Circuitry
- 2001: The Logic Function
- 2001: Representations of Boundary Logic
- 2001: Computational Architectures
- 2001: Iconic Mathematics
- 2001: Boundary Logic Overview
- 2001: Boundary Numbers

### Unary Computers:

- 2001: J, the Simplest Imaginary Number
- 2001: Boundary Mathematics from the Beginning
- 2001: Axiomatization of Boundary Logic
- 2001: People in Boundary Math
- 2001: Peirce on Boundary Logic
- 2001: Unary Business Sketch
- 2000: Dense Matrix Techniques
- 2000: Bar Architecture
- 2000: Using Occlusion to Evaluate Circuits
- 2000: Void-based Computation
- 2000: Exotic Boundary Number Systems
- 2000: Set Aside a Space

## Interval Research Corporation:

- 2000: Integration of Losp into CAD Design
- 2000: Sequential Circuit Modeling and Simulation in Losp
- 1999: Boundary Logic patent
- 1999: Losp 6.5 Code Documentation
- 1998: A Calculus for Multilevel Combinational Circuit Minimization (book)
- 1998: Visualization of Circuit Minimization
- 1998: Losing Consciousness at Tuscon III
- 1998: A Question within a Question
- 1998: Generalized Insertion
- 1997: Losp 6.0 Code Documentation
- 1997: Bit-stream Circuit Simulation
- 1997: Hierarchical Modeling in Pun-Losp
- 1997: Symmetry in Boolean Functions
- 1997: Notes on Matrix Techniques for Logic
- 1997: Models of Circuit Properties in Losp
- 1997: Finite State Machines in Losp
- 1997: Form Abstraction in Distinction Graphs
- 1996: Modeling for Hardware and Software Integration
- 1996: Time as Depth
- 1996: Forms of Addition
- 1996: Notational Discussions
- 1996: Multiply Accumulators
- 1996: Algebra, Logic, Integers, Functions, and Sets
- 1996: Circuit Generators
- 1995: Synthesis Capabilities of Losp
- 1995: Losp 4.0 Usage
- 1995: Losp Applied to MCNC Benchmarks
- 1995: Possibility Waves
- 1995: Strategies for Combinatorial Circuit Optimization
- 1995: Probabilistic Timing of Combinatorial Circuits
- 1995: Logic Synthesis
- 1995: Cyclic String Notation
- 1995: Boolean Function Manipulation
- 1994: Documentation, Losp 2.0, 3.0, and 4.0
- 1994: Boundary Mathematics as an Integration Strategy for Computing
- 1994: Where Quantum Logic Differs from Classical Logic
- 1993: FPGAs and Boundary Logic
- 1993: Circuits and Boundary Logic

## Oz...International, Ltd.:

- 1994: Design of a Location-based VR Entertainment Unit
- 1994: Interactive Software Tools for Experiential Computing
- 1993: Smart Spatial Engine and Algorithms for Physical Dynamics (with J. Duluk)
- 1993: Declarative Logic Accelerator (with W. Kohn)
- 1993: Spatial Database Accelerator (with J. Duluk)

### 1992: Oz Business Plan: EduSpace (with M. Bricken)

### Human Interface Technology Laboratory:

- 1994: Embedding Mathematics in a Virtual World
- 1993: A Second Step Towards Virtual Reality: The Entity Model and System Design
- 1993: Experiential Computation
- 1992: VEOS Project Programmer's and Tool Builder's Manuals (with G. Coco)
- 1992: VEOS Design Goals
- 1991: Learning in Virtual Reality
- 1991: Meta Operating System and Entity Shell (with D. Pezely)
- 1990: Dialogue Concepts
- 1990: Virtual Interface Technology, Siggraph Tutorial
- 1990: Boundary Logic, Boundary implementations
- 1990: VR Directions of Growth
- 1990: Virtual reality is Inhabited
- 1990: Cognitive Models
- 1990: VEOS Preliminary Functional Architecture
- 1990: Software Architecture for Virtual Reality

## Autodesk Research Laboratory:

- 1989: The Cyberspace Project (with M. Bricken, E. Gullichsen, R. Walser, P. Gelband)
- 1989: Cyberspace Toolkit Software Design
- 1989: Geometrical and Biological Models for Space Building
- 1989: Fracturtles: Pictures that Compute
- 1988: State of the Lab
- 1988: Computational Drawings
- 1988: Mathematica Exposed
- 1988: Boundary Logic
- 1988: Boundary Thinking
- 1988: Autolab: Images and Ideas

#### Advanced Decision Systems:

- 1988: Al Based Tools and Concepts for Cockpit Automation Technology (with S. Crawford)
- 1987: Distinction Networks and Neural Networks
- 1987: Distinction Network Parallel Processing
- 1987: Distinction Network Logic
- 1987: The Problem of Robustness: A Multi-valued Logic Approach (with P. Haddawy)
- 1987: Toward Real-time Inference
- 1987: The Efficiency of Boundary Mathematics for Deduction
- 1987: A Boundary Logic Tutorial with the Losp Parallel Deduction Engine (with E. Gullichsen)
- 1987: Boundary Numbers
- 1987: Utilizing Boundary Mathematics for Deduction
- 1987: An Intelligent Program Editor (with S. Rosenbaum)

- 1986: Visual Programming
- 1986: Machine Learning using Self-Organizing Distinction Networks
- 1986: A Deductive Mathematics for Efficient Reasoning
- 1986: Implementation of the Semantic Component of the Extended Program Model
- 1986: Implementation of the Extended Program Model
- 1986: Analysis of Errors in Mathematics
- 1986: Software Architecture for CASES
- 1986: Boolean Formal Systems
- 1985: An Instructable Interface
- 1985: Distributed Performance Maintenance for Ballistic Missile Defense
- 1984: A Program Reference Language
- 1984: Development of an Intelligent Maintenance Training Technology
- 1984: Intelligent Maintenance Training Systems

## Stanford University:

- 1986: The Canons of Formal Symbol Systems
- 1984: Laws of Form: Primary Arithmetic and Primary Algebra (qualifying exam)
- 1984: Curriculum Recapitulates Discovery
- 1984: The Procedural Curriculum
- 1984: A Parenthesis around Logical Foundations

1983: Logical and Cognitive Interpretations of the Laws of Form Applied to Artificial Intelligence

## Atari Sunnyvale Research Laboratory:

- 1983: Logical Proof using Losp
- 1983: A Model Interface Model
- 1983: Fractal Dimensions