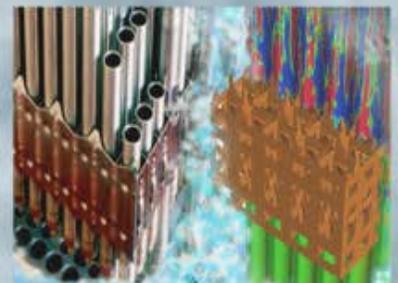
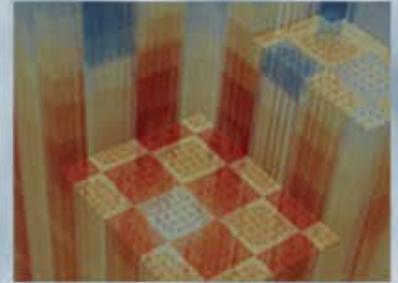


# CASL Program Highlights May 2015

**Jess C. Gehin**  
*Oak Ridge National Laboratory*

**May 31, 2015**



# Patent award for CASL-developed VOCC Visualization Capability



US00D729293S

Virtual Office, Community,  
and Computing



Innovation at the speed of Insight

(12) **United States Design Patent**  
Lewis et al.

(10) **Patent No.:** US D729,293 S

(45) **Date of Patent:** \*\* May 12, 2015

(54) **THREE-DIMENSIONAL DISPLAY DEVICE**

2013/0050186 A1\* 2/2013 Large et al. .... 345/419

\* cited by examiner

(75) Inventors: **April A. Lewis**, Lenoir City, TN (US);  
**John W. Shaw, Jr.**, Rockwood, TN (US)

*Primary Examiner* — Patricia Palasik

(74) *Attorney, Agent, or Firm* — Brinks Gilson & Lione

(73) Assignee: **UT-Battelle, LLC**, Oak Ridge, TN (US)

(57) **CLAIM**

The ornamental design for a three-dimensional display device, as shown and described.

(\*\*) Term: **14 Years**

(21) Appl. No.: **29/413,908**

(22) Filed: **Feb. 22, 2012**

(51) **LOC (10) CL.** ..... **15-99**

(52) **U.S. CL.**

USPC ..... **D15/199**

(58) **Field of Classification Search**

USPC ..... D15/122, 199; D20/1; 345/5, 7, 87;  
348/56, 57

See application file for complete search history.

(56) **References Cited**

## U.S. PATENT DOCUMENTS

4,568,080	A *	2/1986	Yokoi	.....	463/34
4,589,659	A *	5/1986	Yokoi et al.	.....	463/34
5,493,427	A *	2/1996	Nomura et al.	.....	349/5
6,292,158	B1 *	9/2001	Amafuji et al.	.....	345/7
2002/0105483	A1 *	8/2002	Yamazaki et al.	.....	345/7
2010/0120203	A1 *	5/2010	Okada et al.	.....	438/113



1 Claim, 6 Drawing Sheets

# Science Council Updated in a Midyear Briefing

- On 5/22/15 the Science Council was briefed on
  - technical progress made in FY15
  - actions taken on Science Council FY14 recommendations
- Science Council recommendations originating from the briefing include
  - accelerate moving towards SC recommended budget splits

Development	Assessment	Demonstration by Industry
50%	30%	20%

- increase coordination and visibility of V&V activities for VERA and its component codes
- Upcoming Science Council activity includes participation in Focus Area Annual Review & Planning Workshops

# CASL Welcomes Summer Interns

- CASL has received eight new interns for the Summer 2015 session
- Total interns for this session: 14
- Interns from:
  - Massachusetts Institute of Technology
  - Pennsylvania State University
  - University of Michigan
  - University of Texas, Austin
  - University of Tennessee, Knoxville
- Interns will participate in weekly intern breaks and lunches, Summer Student Workshop, and the Summer poster session



# Energy Innovation Hubs Meet to Share Experience and Progress

Argonne National Laboratory – May 13-14, 2015

- **Fourth annual Energy Innovation Hub meeting was held at Argonne National Laboratory on May 13-14, 2015**
  - Management teams from the four remaining Hubs attended
  - CASL Federal Hub Manager, Alex Larzelere was the only DOE participant
  - Meeting hosted by JCESR
- **Outcomes**
  - Discussion on experience with hub renewal process (CASL and JCAP)
  - Sharing of plans and experience with management and licensing of Intellectual Property
  - Best practices for Hub management reviewed
  - Agreed to continue looking for opportunities to coordinate activities between Hubs – including quarterly Hub Director telecons



# Brian Wirth, Deputy Lead of Fuel Materials and Chemistry Focus Area, Receives Top DOE Honor – Ernest Orlando Lawrence Award for 2014



## Ernest Orlando Lawrence *Award*

BRIAN D. WIRTH NAMED RECIPIENT OF DOE'S ERNEST ORLANDO LAWRENCE AWARD

*Brian D. Wirth*

UT-ORNL Governor's Chair for Computational Nuclear Engineering

Honored for his visionary contributions to fission and fusion energy technology.

*The Lawrence Award honors the memory of Nobel Laureate Dr. Ernest Orlando Lawrence, inventor of the cyclotron.*



# CASL May 2015 Activities

## Collocation

- Focus Area Status Reports:
  - Senior Leadership
  - Physics Integration
  - Validation & Modeling Applications
  - Thermal Hydraulics Methods
  - Fuel Materials & Chemistry
  - Technology Deployment Outreach
  - Radiation Transport Methods
- Challenge Problem Integrators
  - Reactivity Insertion Accident (RIA)
  - Loss of Coolant Accident (LOCA)
  - Grid-to-Rod-Fretting (GTRF)
  - Corrosion-Related Unidentified Deposits (CRUD)
  - Pellet-Cladding Interaction (PCI)
  - Departure from Nucleate Boiling (DNB)
  - Validation Data
- Focus Area & Challenge Problem Wrap-up

## VOCC Tours

- James Hambry, Undergraduate student in Pellissippi & Hiwassee College
- Westinghouse Electric Company

## Meetings

- Virginia Tech, Blacksburg, VA, May 8
- Westinghouse Electric Company, May 27