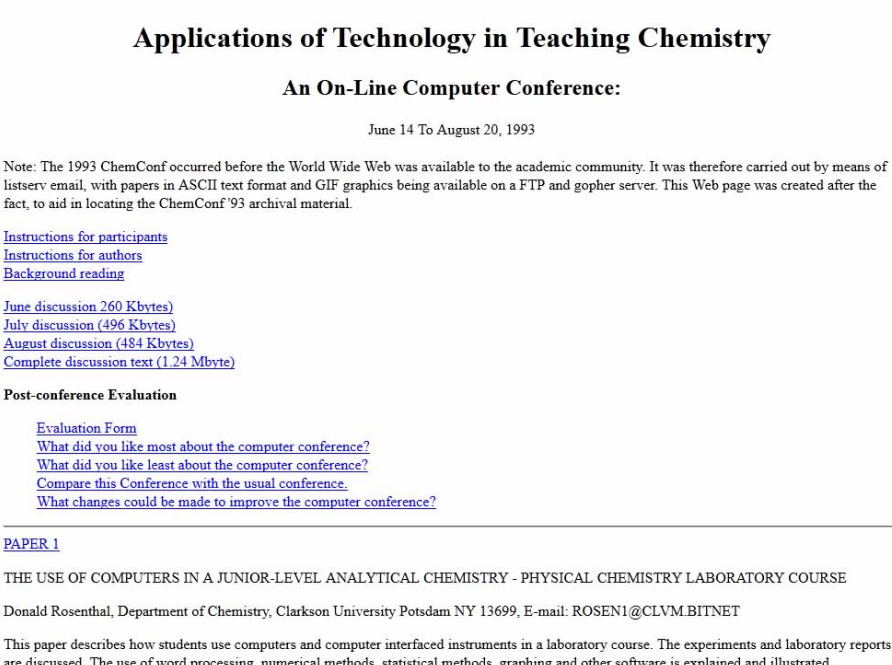


ConfChem Online Conferences

1993-1996

FTP/Gopher - No html

images were obtained over ftp or gopher servers, the papers were posted as ASCII text files and the images required a separate image viewer. For many of the participants this was their first introduction to email <http://terpconnect.umd.edu/~toh/>



- '93 Application of technology teaching chemistry
- '95 Can we implement the scholarship of teaching?
- '96 New Initiatives in Chemical Education

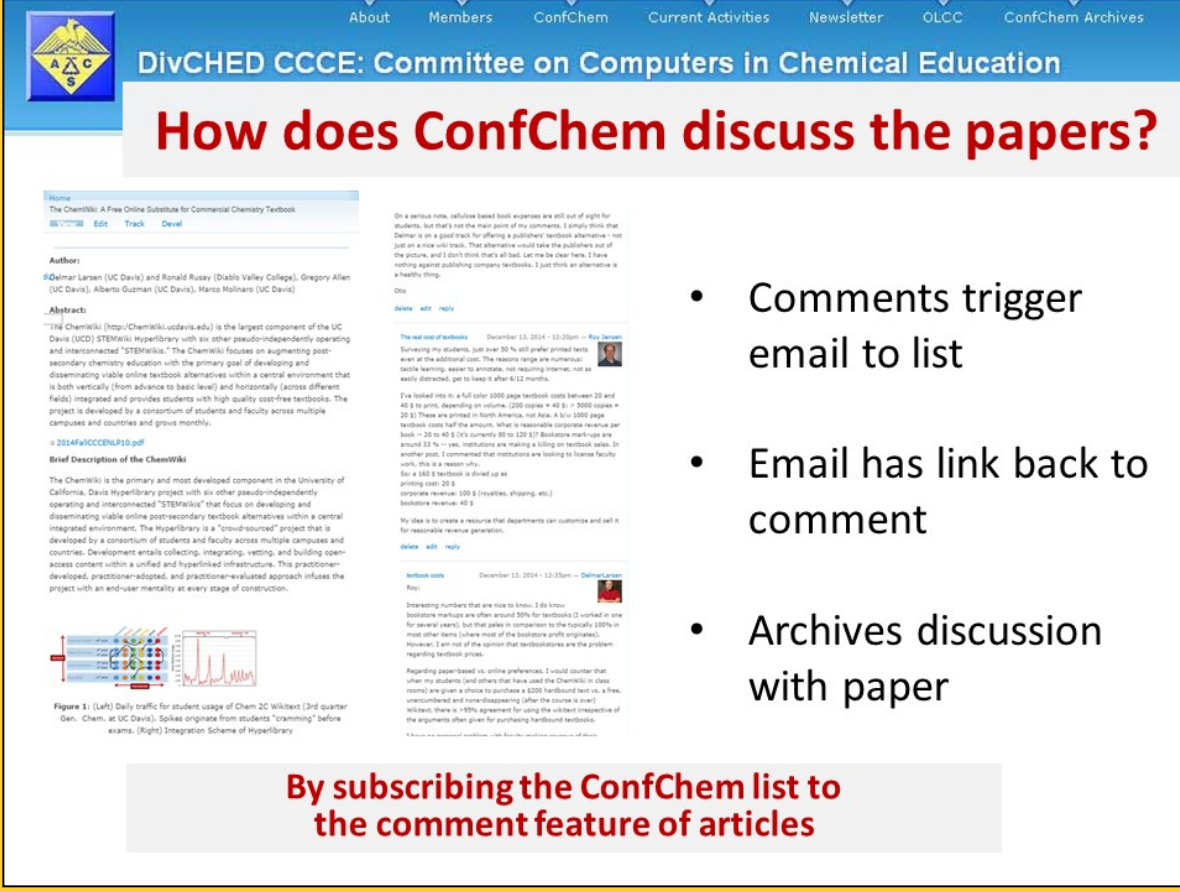
1996-2010

Web 1.0 – listserve emails

- '98 '99 ConfChems
- '99 What should students know after GenChem
- '00 Assessment of Model Creation by Chem Students
- '00 The Use of Computer Simulations in General Chemistry
- '01 Lecture Demonstrations in Chemistry on the WWW
- '01 Environmental and Risk/Benefit Issues in the K-12 Science
- '01 On-Line Teaching Methods
- '02 Undergraduate Research
- '02 Problem Solving in Chemistry
- '02 Teaching Safety in High Schools, Colleges, and Universities
- '03 Methods Other Than Lecture and Assessment
- '04 How and Why Teach Chemistry for Non-Science Majors?
- '04 Teaching Computing in Chemistry Courses
- '05 Trends and New Ideas in Chemical Education
- '05 The Application of Technology in High School Chemistry
- '06 Web-Based Applications for Chemical Education
- '06 Ensuring the Future Through Education of DivChEd
- '07 International Conference on First-Year College Chemistry
- '07 Meeting the Challenges of Teaching Chemistry for General Education Students

2011-Present

Web 2.0 – Drupal CMS - Online Discussions



- '11 Case-Based Studies in Chemical Education
- '12 Social Web Technologies
- '14 Flipped Classroom
- '15 Interactive Visualizations for Chem Teaching and Learning
- '16 Science, Disarmament, and Diplomacy in ChemEd
- '16 Select 2016 BCCE Presentations
- '17 Mathematics in Undergraduate Chemistry Instruction

The Committee on Computers in Chemical

Education (CCCE):

25 years of ConfChem Online Conferences.

Xavier Prat-Resina<sup>1</sup>, Robert E. Belford<sup>2</sup>, Tanya Gupta<sup>3</sup>, Jon Holmes<sup>4</sup>, Jennifer L. Muzyka<sup>5</sup>, Eric Nelson<sup>6</sup>, Rick Spinney<sup>7</sup>, Jason Telford<sup>8</sup>

<sup>1</sup>Univ. of Minnesota Rochester. <sup>2</sup>Univ. of Arkansas at Little Rock, <sup>3</sup>South Dakota State Univ., <sup>4</sup>Univ Wisconsin Madison, <sup>5</sup>Centre College, <sup>6</sup>ChemReview.Net, <sup>7</sup>The Ohio State University. <sup>8</sup>Maryville Univ.

What is the CCCE?

We are a standing committee of ACS Division of Chemical Education, and we seek to encourage, publicize and support the development, assessment and use of computing technologies in chemical education.

The CCCE online conferences:

Advantages of online conferences

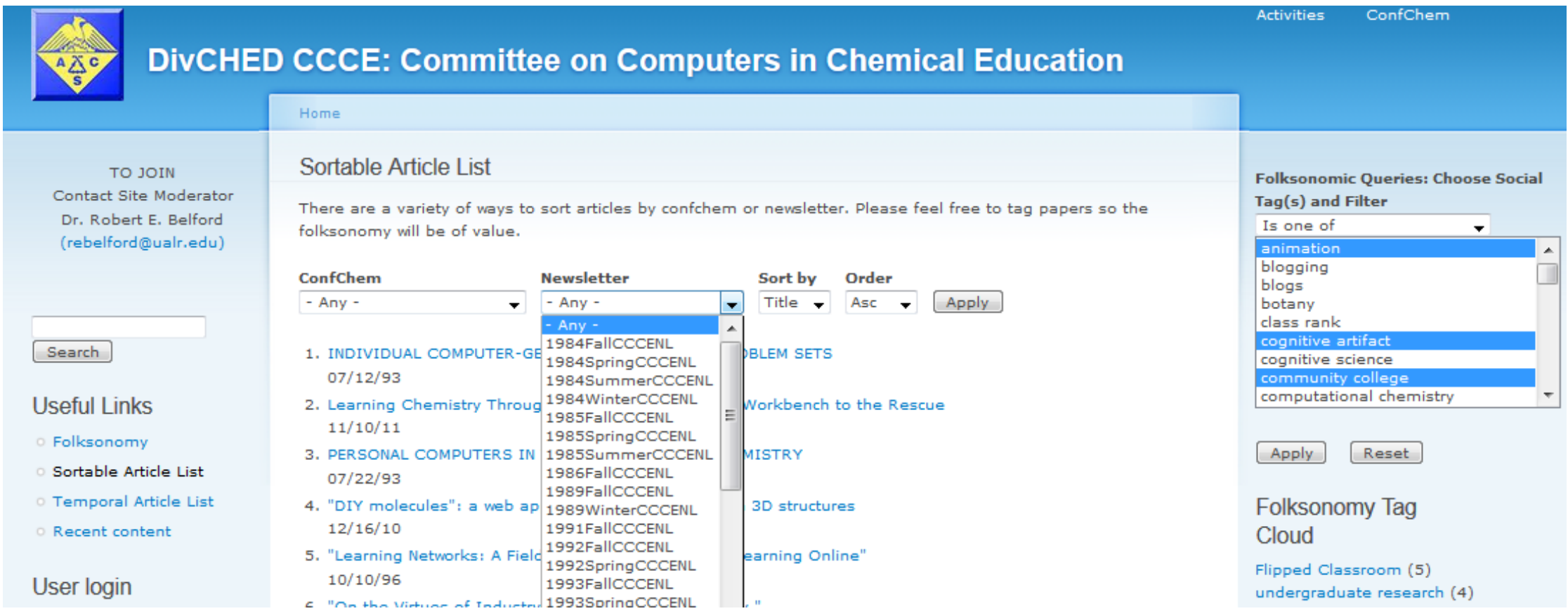
- Low cost for attendance: Free
- Wide audience: International participation
- Open Access Archives
- Discoverable by search engines
- Asynchronous discussions
- Participants have time to discuss papers
- Ideal for multiple time zones
- Ideal for posting digital objects
- Participants can use digital objects during presentations

How they work

- A paper is highlighted and discussed on the web during few days.
- Threads comments below each paper
- Comments become part of paper and they are also archived. It can be thought as an open peer-review
- Comment triggers email to all subscribers
- After a paper stops being highlighted, the discussion may continue without email triggers.

Archives

Our server has archived and indexed almost all ConfChem and Newsletter articles. Since 2010 all the comments and discussions, are also part of the archive.



Publications

Since 2010 we sought to publish the conference:

- JCE ConfChem Features 2010-2017

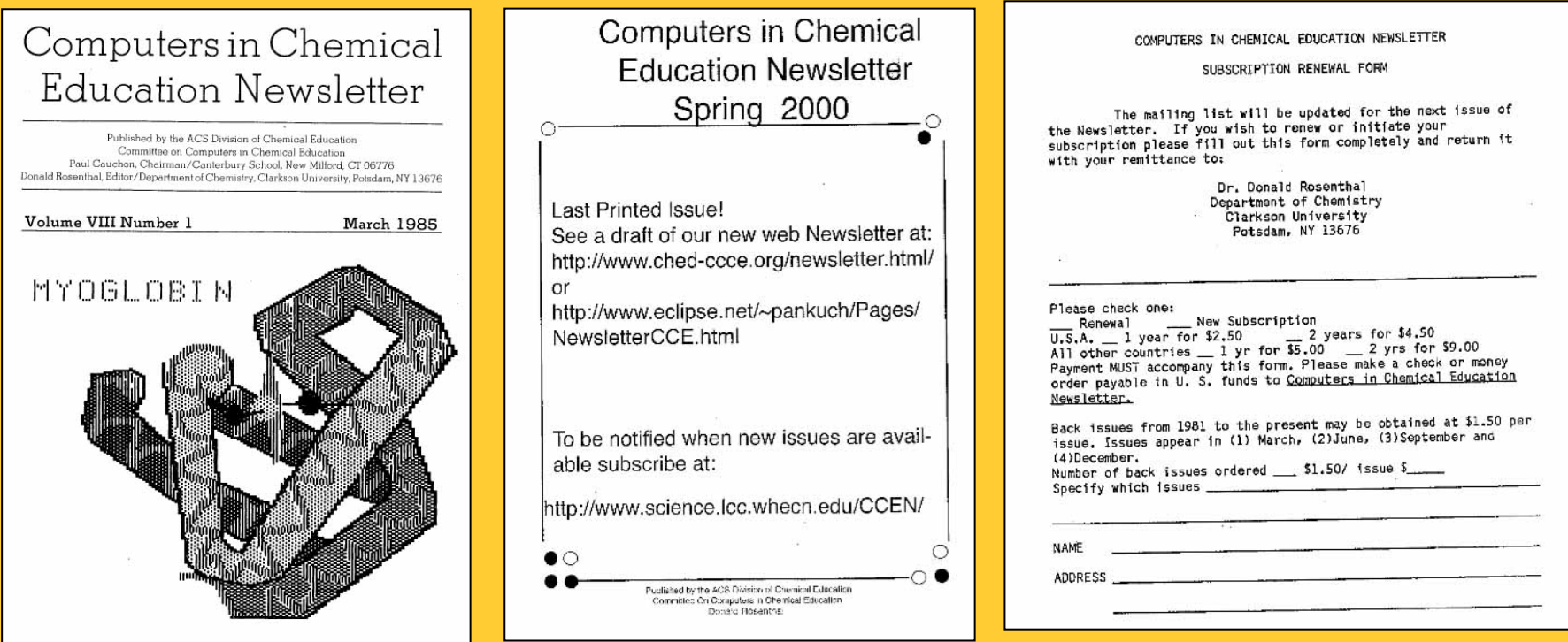


- Chemistry Teacher International (2018...)
- Future Directions
- Create a sustainable community of practice on 1)Development 2)Implement. and 3)Assessment of Computers in ChemEd using DivChEd/ChemEdX servers

Newsletters and OLCC

1978-2000

Printed Newsletters



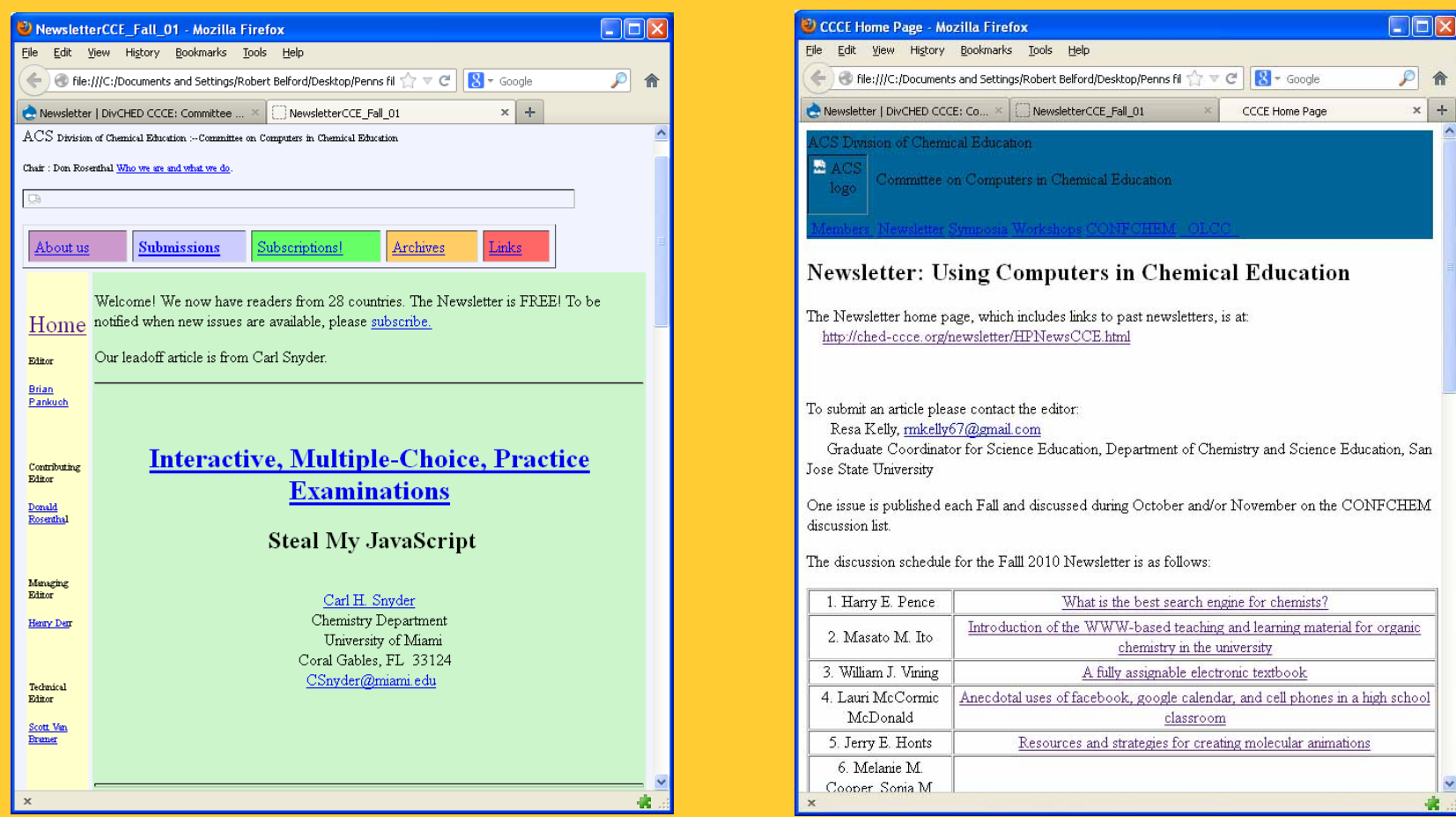
1996 and 1998

First Online Chemistry Course (OLCC) on Environmental Chemistry OLCC on Pharmaceuticals Discovery

2000-2010

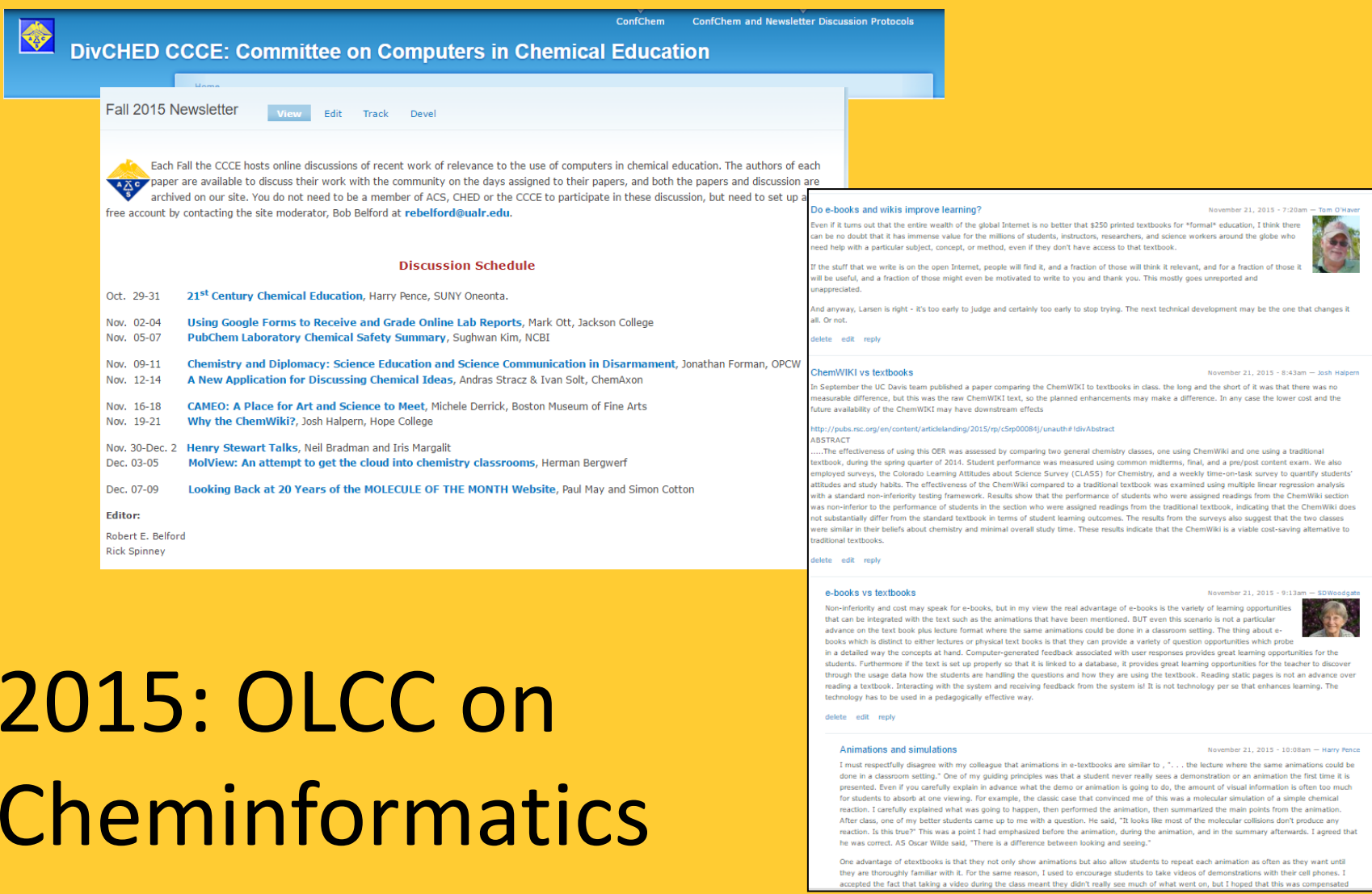
Web 1.0

2004: OLCC on Chemical Safety



2010-Present

Web 2.0 – Drupal CMS



2015: OLCC on Cheminformatics

Newsletter Discussions every Spring ConfChem Discussions every Fall



Our servers: <http://www.ccce.divched.org> and <http://olcc.ccce.divched.org/>

