

Plan

- · A Brief History of CALL
- New Technologies in English as a Foreign Language: A Systematic Review

A BRIEF HISTORY OF CALL

A Brief History of Computer-Assisted Language Learning (CALL)

- 1950s 1970s: Behaviouristic CALL
- 1970s 1980s: Communicative CALL
- 1990s onwards: Integrative CALL

(Warschauer, 1996)

· For a critique and alternative classification see Bax (2003)

1950s-1970s: Behaviouristic CALL Applications: Drill and practice (aka. "drill and kill") Programmed instruction (Skinner 1985; Beatty, 2003)



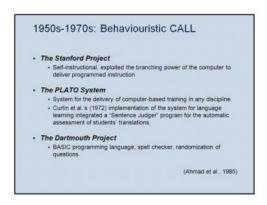
Programmed Instruction

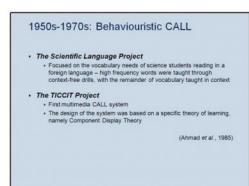
A set of frames to teach the spelling of 'manufacture' to third-graders.

(Skinner, 1958: 969-77; Beatty, 2003: 87)

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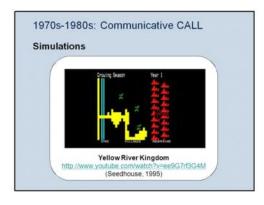
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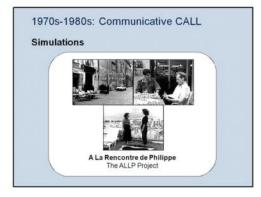












1970s-1980s: Other Developments

Authoring

- Launch of the BASIC programming language
- → Birth of the teacher-programmer
- Authoring tools
 - Hot Potatoes (http://www.halfbakedsoftware.com/)
 - Multiple-choice questions (JQuiz)
 - Gap-fill exercises (JCloze)
 - · Crosswords (JCross)
 - Jumbled sentences/words (JMix)
 - Ordering exercises (JMatch)
 - Matching exercises (JMatch)



1990s onwards: Integrative CALL - Applications - Web Quests (Dodge, 1995) - Task-based learning WebQuest Web Quest

1990s onwards: Integrative CALL

- · International Email Tandem Network
- Computer-Aided Multimedia Interactive Learning (CAMILLE)
- The Oral Language Archive

(Levy, 1997)

The Future of CALL

- Levy (2009) draws our attention to three new areas of
 CALL research.
 - Speech-enabled CALL

(Special issue CALICO 1999; Holland and Fischer, 2008)

- Mobile CALL (MALL)
 - (Special issue ReCALL 2008)
- CALL 2.0
- Another established field of CALL Levy mentions is:
 - Intelligent CALL (ICALL), also known as parserbased CALL

(Heift and Schulze, 2007)

NEW TECHNOLOGIES IN EFL A SYSTEMATIC REVIEW

Discussion Questions

Another characteristic of a systematic review is that requires engagement with the users of the review.

- What characterises good use of technology in language learning?
- Which applications "add value"?
- How can we convince teachers of the value of using technology in language learning?
- What are teachers looking for from evaluations of the use of technology in language learning?

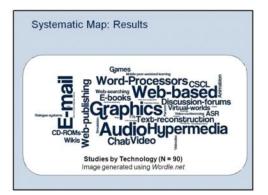
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Systematic Map: Results

- 90 papers were identified which met the inclusion criteria
- In the majority of these papers English was the TL(72%); and, in 29% the TL was a European language

Total	Secondary	Primary	language skills/areas
24	14	10	Vocabulary
8	6	2	Grammar
3	0	3	Pronunciation
21	9	12	Reading
21	16	5	Writing
5	3	2	Speaking
5	1	4	Listening
37	23	14	Other
4	4	0	Not indicated
90	51	39	Total

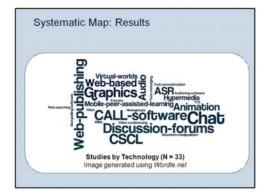


In-Depth Review: Results

· 33 papers were identified which met the inclusion criteria

Studies by Language Area and Skill (N = 33)

Total	Secondary	Primary	Language skills/areas
11	6	5	Vocabulary
3	3	0	Grammar
3	0	3	Pronunciation
12	5	7	Reading
11	8	3	Writing
2	1	1	Speaking
2	0	2	Listening
33	18	15	Total



Internet: Web Publishing

- Parks et al. (2005)

 - Technology and instruction
 Collaborative web site creation projects
 - Process writing instruction
 - Method
 - Canadian high school students grades 7 through 10
 Students' appropriation of process writing

 - Students gradually appropriated the writing process
 They understood the process, used it, and began to transfer it to other classes because they found it useful.
 - Implications
 - . To get this result, teachers have to persist

Computer-Mediated Communication (CMC)

- Computer-Mediated Communication
 - "Any program that allows learners to exchange language through text or audio." (Blake, 2008: 152)
 - E-mail
 - Discussion forums
 - Chat
 - Synchronous/Asynchronous
 - · One-to-one/One-to-many
 - Text/Voice

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CMC: Discussion Forums

- Chandrasegaran and Kong (2006)

 - Technology
 Discussion forums
 - · Teacher-set topics: "Which fighter plane", "Singapore Idol", etc.
 - · Method

 - 15 yr olds at a secondary school in Singapore
 190 postings selected by the teacher were analysed for features of expository writing

 - Stance-taking
 - - . 33 postings contained personal attacks and were discarded
 - 137 (86%) posts contained stance (total 159 postings)
 75 (55%) expressed stance-support (total 137 postings)
 120 support moves were identified: personal opinion (33%), fact (27%), hypothesizing outcomes (8%) anticipating opposing views (6%)
 - Students showed less evidence of being able to support stance; this may have been due to the fact that they were not interested in the topic

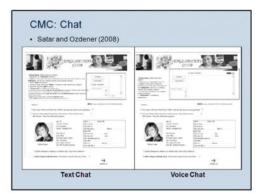
CMC: Chat

- · Satar and Ozdener (2008)
 - Technology and instruction
 - Text and voice chat
 - Homework activities: Information gap, problem solving, jigsaw, and decision making

 - 16 17 yr olds at a vocational high school in Turkey

 - IVs: (1) Text chat, (2) voice chat, and (3) control (no homework)
 DVs: (1) Speaking proficiency, and (2) foreign language learning anxiety

 - . Both text and voice chat can improve students' speaking
 - Text chat can decrease students' foreign language learning anxiety



Mobile CALL: Text messaging

- · Lu (2008)
 - Compared (1) bite-sized text message lessons spaced through the day with (2) pen-and-paper instruction, i.e. list presentation
 - In the text message condition, students received four text message lessons per day, two during each of their commutes
 - Those who received text messages improved more, but this advantage was not retained at post-test
 Students appreciated the bite-sized lessons

 - Students employed positive learning strategies one constructed here own sentences and sent them back for feedback
 - The games available on mobile phones may distract students from lessons

Mobile CALL: Mobile Peer-Assisted Learning

- Lan et al. (2009):

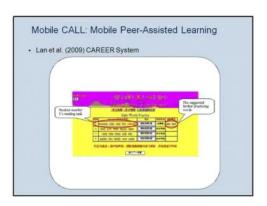
 - Technology and instruction

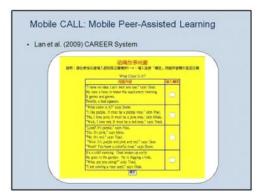
 Computer-Assisted Reciprocal Early English Reading (CAREER) system

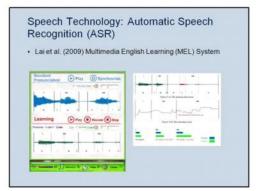
 Learn a personalised list of words and a phonetic rule; Read a paragraph of text, Collaborate to reconstruct the whole text, Practise reading for inter-group competition; Collaborate to answer comprehension questions

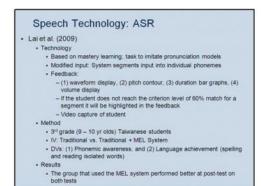
 - 3rd grade Talwanese students (primary)
 1/vs: CAREER vs. group work
 DVs. (1) Oral reading fluency, (2) Retell fluency, and (3) Behaviours
 - Oral reading fluency: Both groups improved and there was no difference between the two groups
 Retell fluency: Both groups improved, but the CAREER group improved.

 - Behaviours: Students who used the CAREER system collaborated more effectively. Students in the control group failed to cooperate, were more teacher dependent, were not good at peer-assessment and spent more time in learning-unrelated behaviours



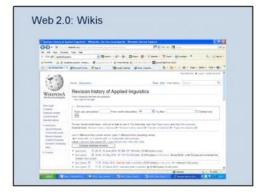






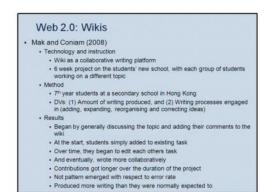


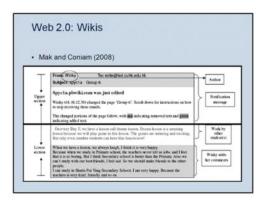


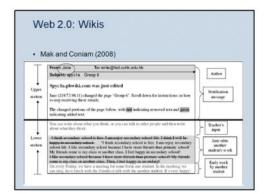


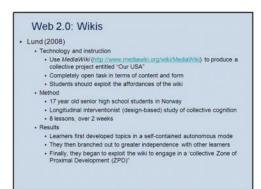












Virtual Worlds Zheng et al (2009) theng et al (2009) Technology and instruction Quest Atlantis (http://QuestAtlantis.org), a 3D game-like virtual world developed using Active Worlds Incorporates CMC (chat, builetin boards, telegrams and e-mail), 3D avatars and 2D web page navigation tools Allows students to travel to virtual lands where they can engage in quests (context, goals, resources) communicate with other users and mentors and build virtual personae Game-like activities for children with a mythological back story and a point rewarding system Method Method 7th grade students in a middle school in mainland China 1/vs: Question Attantis vs. no additional teaching — 60 mins per week for 25 weeks — Synchronous communication with Australian partners • D/vs: Patterns of: (1) language use, (2) media use, (3) engagement in QA activities, (4) engagement in quests



Virtual Worlds

- Zheng et al (2009)

 - Results

 Co-questing with Australian partners was not possible due to timetabling

 Chinese students saw the activities as academic work and took more
 seriously than the Australian students who 'played' in Quest Atlantis in an
 after school club. The Chinese students complained that the Australian
 students did not complete their part of the activities

 Topics in chat were limited to greetings and everyday school topics

 72% of the Chinese students engaged in QA at home

 59% of these engaged in single quests (Quest Atlantis Mission, Who am
 17, All about Friends)

 Only 9 out of the 31 pairs of questers completed the co-quest (Becoming
 an E-pal joint PowerPoint about oneanother)

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