



**CENTER FOR ADVANCED RESEARCH
AND TECHNOLOGY**

A regular meeting of the Board of Directors of the Center for Advanced Research and Technology (CART) was held on Tuesday, May 11, 2010 at 4:00 p.m. in the Executive Conference Room located at 2555 Clovis Avenue in Clovis, California.

Chairman Fortune called the meeting to order at 4:04 p.m.

**CALL TO ORDER
ROLL CALL**

BOARD	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April 8 SPECIAL	April 22 SPECIAL	May	June
ASADOORIAN	Present	Absent	Present	Present	Present	Present	Present	Present	Present	Present	
CASH	Present	Present	Present	Present	Present	Present	Present	Present	Present	Absent	
FORTUNE	Present	Present	Present	Absent	Present	Present	Present	Present	Present	Present	
FROST	Present	Present	Present	Present	Present	Present	Absent	Present	Present	Present	
HANSON	Present	Present	Present	Present	Absent	Absent	Absent	Present	Present	Absent	
LAKE	Absent	Present	Present	Present	Present	Present	Present		Absent	Absent	
SANDOVAL	Present	Present	Present	Present	Present	Absent	Present	Present	Present	Present	
STAFF											
FISHER	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	
FORBES	Present	Present	Present	Present	Present	Present	Present	Present	Absent – Medical	Present	
CANTU					Present						
CHUTE	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	
BLIZZARD										Present	
JOHNSTON	Present		Present		Present				Present	Present	
HANRAHAN							Present			Present	
MADDEN						Present					
WARD										Present	

Tracewell Hanrahan, Executive Officer/School Leadership, Fresno Unified School District sat in for Superintendent Hanson; and Steve Ward, Associate Superintendent Administrative Services, Clovis Unified School District sat in for Superintendent Cash.

**SUPERINTENDENTS'
DESIGNEES**

MSCU [Frost/Asadoorian] to amend the agenda moving Agenda Item H-1, *Third Quarter Financial Report* to the beginning of the meeting; all other agenda items remain the same.

**APPROVAL OF
AGENDA**

Michael Johnston, Assistant Superintendent Business Services, Clovis Unified School District, reviewed the Third Quarter Financial Report.

**THIRD QUARTER
FINANCIAL REPORT**

MSCU [Sandoval/Asadoorian] to approve the Third Quarter Financial Report as submitted.

The following Robotics Lab students provided a special presentation: BreeAnn Bowman, Clovis East; Zachery Emory, Hoover; Dairien Finney, Clovis High; Jorge Miller, Clovis High; Paul Nester, Fresno High; Chandler Spain, Clovis High; and Ryan Watts, Clovis East. The students invited the Board out into the hallway for a live demonstration of their competitive robot used in the recent Robotics competition.

**SPECIAL
PRESENTATION**
Robotics Team

MSCU [Frost/Asadoorian] to approve the minutes of the April 22, 2010 special Board meeting as submitted.

BOARD MINUTES

At 4:35 p.m. the Board convened to Closed Session.

CLOSED SESSION

1 At 4:45 p.m. the Board reconvened. Chairman Fortune announced that no
2 action had been taken during Closed Session.

RECONVENE

3 **CONSENT**

4 MSCU [*Sandoval/Ward*] to approve the consent agenda as submitted.

**APPROVAL OF
CONSENT AGENDA**

5 Approved purchase orders from April 1, 2010 through April 30, 2010 and
6 warrants numbered 443327-443333; 443504-443508; 443736; 443793-
7 443802; 444318-444332; 444787-444795.

**PURCHASE ORDERS
& WARRANT
REGISTER**

8 Approved the following student trips.

STUDENT TRIP

9 May 28, 2010

10 Multimedia Lab to USC School of Cinematography; Post Production
11 Special Effects Studio; and Back Lot Tour
12 Los Angeles, California – *Day Trip Only*
13 Funding: ROP

14 Approved the following conference request.

**CONFERENCE
REQUEST**

15 July 19-23, 2010

16 Law and Justice Professional Development Institute
17 Sacramento, California
18 Courtney Somers, Mark Thompson, and Beth Wielicki, Law Lab
19 Instructors

20 Susan Fisher reviewed the proposed Book Disposal list informing the
21 Board that because the books were purchased with funds from two school
22 districts it would require action by the CART Board which includes
23 representatives from both districts in order dispose of books no longer in
24 use. The Board approved the disposal of books that were no longer in
25 use.

BOOK DISPOSAL

26 **ACTION**

27 MSCU [*Sandoval/Frost*] to approve the CART Operating Agreement for
28 2009-10 and the CART Operating Agreement for 2010-11 as amended.

**OPERATING
AGREEMENT**

29 MSCU [*Asadoorian/Frost*] to approve Board Policy No. 2101 – *Enrollment
30 and Admissions* as amended. Steve Ward stated that a student enrolled in
31 the Clovis Unified School District Online school was hoping to also attend
32 CART and Clovis Unified School District had made the determination that
33 that is NOT possible. Because the legislation is so specific on how CART
34 is funded for average daily attendance [ADA] the districts don't want to in
35 any way jeopardize funding with any special situations.

**B.P. NO. 2101
*Enrollment and
Admissions***

36 MSCU [*Sandoval/Frost*] to approve Board Policy No. 2201 – *Student
37 Services Rights and Responsibilities* as amended.

**B.P. NO. 2201
*Student Services Rights
and Responsibilities***

38 MSCU [*Frost/Ward*] to approve Board Policy No. 6101 – *Qualifications and
Rights of Employees* as amended.

**B.P. NO. 6101
*Qualifications and
Rights of Employees***

INFORMATION

ZULAMA ONLINE LEARNING

1 Susan Fisher explained that Zulama has approached CART about the
2 possibility of selling CART curriculum online. John Forbes has been in
3 contact with Zulama for the last 3-4 months regarding this opportunity.

4 Zulama wants CART teachers to convert their courses into online courses.
5 The courses will not be integrated as at CART, they may or may not be
6 project-based, but they will be individual 45 minutes lessons for online use.
7 Zulama is offering royalties for each course, for example a teacher will
8 write a course and each time the courses is sold a royalty would be paid.
9 The internal conversation has been that these are CART courses, developed
10 with CART funding, and on CART time, and perhaps this could be a
11 revenue source for CART. We have had conference calls with Zulama and
12 discussions with staff regarding who might be interested in converting
13 courses and also a fair split of the royalty payments. John Forbes has been
14 working with Zulama to obtain a written proposal. An agreement would
15 have to be reached and approved by the Board. We hope to discuss possible
16 roadblocks and concerns with the Board so that we can return to Zulama to
17 iron out any concerns the Board might have.

18 Discussion followed, including, but not limited to the following concerns.

- 19 ✓How will the sale of courses be tracked so we know how much money should
20 be generated back to CART?
- 21 ✓Perhaps payment should be made to CART up front.
- 22 ✓There should be an advance on future sales
- 23 ✓A possible revenue source for CART but is it possible teachers will be off task
24 from their CART teaching responsibility.
- 25 ✓Patents should be obtained.
- 26 ✓Suppose a teacher participates and does quite well with their course and so they
27 retire from CART – whom does the curriculum and the revenue belong to – the
28 teacher or CART.
- ✓Suppose a teacher who teaches at CART endeavors to write a brand new course
not offered at CART but written while they are an employee of CART – does
CART get part of the revenue from that course because they are an employee
of CART?
- ✓Would CART be liable if a teacher agrees to write a course and then does not
produce?
- ✓Perhaps a flat fee should be paid for the writing of each course.
- ✓A separate agreement to license course content and a separate agreement for the
author of the course.
- ✓Can the potential benefit to CART be projected, i.e. is the expectation that x
number of online course seats will result in \$50,000 per year? Need to make
sure that the projected revenue will be worth our time.
- ✓CART's most valuable asset is the curriculum that has been developed so we
want to make sure that if CART enters into an agreement that it is a worthwhile
venture to benefit CART and the best scenario for the marketing of the CART
curriculum, and not enter into a long-term contract that would lock CART in.
- ✓The CART curriculum is of great value to Clovis and Fresno Unified School
Districts and a tribute to the nationwide reputation of CART.
- ✓Who will the courses be sold to?
- ✓Suggested working with the Lisle Center at CSUF possibly Mike Somers as
they have worked with companies to sell products and may be able to assist
CART in refining and entering into a contract.
- ✓Exercise caution to leverage liability of dispute over intellectual property –
entrepreneurs spend a lot of time fighting over whose idea it was and at CART
it was very collaborative, the sum of many ideas, and you want to somehow
protect against disputes.
- ✓Writing courses for Zulama might become a distraction to the main focus at
CART.

1 Susan Fisher pointed out that the proposed agreement had been sent to the
2 attorney for review and discussions would need to continue before a final
proposal could be drafted. Zulama representatives have offered to travel
from Chicago to meet with CART representatives to discuss this further.

**ZULAMA ONLINE
LEARNING,
CONTINUED**

3 Susan Fisher explained that the Board will be presented with an evolving 5-
4 year technology refresh plan every spring adding the 5th year plan in order
to keep CART at the cutting edge of technology while continuing to be
5 financially responsible. Susan Fisher pointed out that the Technology
Refresh Plan had been reviewed with each district's technology department;
6 fiscal department; and superintendents.

**5-YEAR
TECHNOLOGY
REFRESH PLAN**

7 Michelle Asadoorian asked if the computers were leased or purchased.

8 John Forbes responded that the computers are purchased. Susan Fisher
9 stated that the CART budget is able to fund the next five years and then
hopefully funding will be more readily available enabling the two school
10 districts to begin making contributions toward the CART technology
refresh. Susan Fisher asked Board members to contact her prior to the June
11 Board meeting if they had any suggestions or additional questions about the
Technology Refresh Plan. Susan Fisher acknowledged John Forbes and
12 Craig Morrison for the work they had done to construct the technology
refresh plan.

14 John Forbes reported on the following matters.

STAFF REPORTS

*Dean of Curriculum
& Instruction*

15 Leadership

16 Teacher leadership will be looking at formative assessment – what students
know and figuring out the next step

17 Connecting With Industry

18 Connecting with industry in the classrooms seeking to establish more
advisory Boards

19 Distinguished Speaker Series

20 CART had two sessions for the distinguished speaker series – a guest
speaker from REC Solar which is the largest solar installer in the nation;
and Inland Star Distribution Centers which warehouses and distributes
21 goods. It was fun to see students connect with professions and possible
careers that they didn't even know existed. The staff wants to continue the
distinguished speaker series.

23 Susan Fisher reported on the following matters.

Chief Operating Officer

24 Senior Recognition

25 Board members were encouraged to stay for the Senior Recognition Night
scholarships and awards presentations. A copy of the Senior Recognition
Program was included in the Board packet. Fifty-eight seniors will be
26 receiving an award or scholarship which is 10% of the senior class at
CART. The Scholarships total \$32,500, not counting the \$125,000 that one
student received from Norfolk University. Susan Fisher acknowledged
27 John Forbes' assistance in identifying a student to receive an opportunity
for a full scholarship to Norfolk University. We are very pleased that even
28 in this economic climate we are still able to generate scholarships for CART
students.

Summer Academy

CART Summer Academy for 4th through 6th grade students will be held July 12-16 and we are beginning to receive registrations.

School Calendar

The calendar has been adjusted to account for the required furlough days – three days for Clovis Unified employees; and two days for Fresno Unified employees.

Staff Opening

CART has one opening for a Neuroscience instructor in the Psychology Lab. That position has been posted and we will be interviewing candidates soon.

Transition

The transition to the new administration has begun – Devin and Susan are meeting weekly and Susan has invited him to attend the Board meetings.

June Board Meeting

Reminded Board members that the June Board meeting will be the third Tuesday to accommodate graduation ceremonies so that will be on June 15th.

Approved [Scheduled] Enrollment Totals

AM SESSION

Max Allowed	Lab	Year 1	Year 2	CART Yr 2	Current Total	1 st Choice Approved	1 st Choice Pending
65	Biomedical Engineering	71	16	32	87	67	10
65	Biomedicine	57	24	43	81	122	48
40	Digital media & Graphic Design	0	0	0	0	39	0
40	Digital Video Production/Broadcast	0	0	0	0	62	7
75	Economics/Finance	70	11	28	81	52	3
66	Environmental Research & Technology	68	2	14	70	69	8
65	Forensic Research	76	1	46	77	113	20
25	Interactive Game Design	21	0	19	21	49	2
70	Law & Order & Policy	90	0	12	90	52	2
75	Marketing & Advertising	82	2	48	84	75	10
80	Multimedia	103	3	33	106	0	0
30	Network Management & Computer Maintenance	27	9	17	36	34	3
40	Engineering & Product Development	33	6	13	39	38	1
65	Psychology & Human Behavior	85	1	47	86	118	59
30	Web Application Development	34	0	6	34	23	0
831		817	75	358	892	913	173

PM SESSION

Max Allowed	Lab	Year 1	Year 2	CART Yr 2	Current Total	1 st Choice Approved	1 st Choice Pending
65	Biomedical Engineering	38	8	14	46	35	0
65	Biomedicine	62	19	29	81	111	9
40	Digital media & Graphic Design	0	0	0	0	47	1
40	Digital Video Production/Broadcast	0	0	0	0	41	0
75	Economics/Finance	28	5	9	33	29	0
66	Environmental Research & Technology	48	0	7	48	42	0
65	Forensic Research	48	0	3	48	48	0
25	Interactive Game Design	26	0	26	26	54	0
70	Law & Order & Policy	43	0	2	43	28	1
75	Marketing & Advertising	24	1	3	25	22	0
80	Multimedia	89	11	14	100	0	0
30	Network Management & Computer Maintenance	29	3	6	32	26	0
65	Psychology & Human Behavior	75	15	29	90	91	1
40	Robotics & Electronics	32	3	13	35	30	0
30	Web Application Development	27	0	4	27	13	0
831		569	65	159	634	617	12
1662		1386	140	517	1526	1530	185

**STAFF REPORTS,
CONTINUED**
Chief Operating Officer

Pilot Test Group A – Progress Tracking

School	Lab	ELA	Math	CART Grades	CART GPA	Home School Grades	FO9 GPA	Credit Earned	F08 GPA	Credit Earned	Feb.	April
Bullard	Law	N	N	DCCB	2.0	DFFA	1.6	35	1.3	30	CDDC	DDDA
Sunnyside	Environ.	Y	Y	CCCA	2.5	BFDF	1.7	30	0.6	10	BCDA	BDDB
Sunnyside	Finance	Y	Y	CCCC	2.0	CCCC	2.5	30	1.6	35	CBBB	CCBB
Hoover	Law	Y	Y	CCDA	2.2	DAC	2.2	35	1.7	45	CCCC	CCCC
Roosevelt	Marketing	Y	Y	CCCB	2.2	FDDC	1.5	30	2.5	30	DCDD	CCCC
Hoover	Finance	Y	Y	CDCC	1.7	DCA	2	35	2.6	30	FFDC	FDDD
Sunnyside	Environ.	Y	Y	CCCA	2.5	CDDA	2.2	40	2.1	30	CCCA	CFDC
Edison	Finance	Y	Y	CCCB	2.2	ADD	2.1	35	1.8	30	DCFA	CCDA
Sunnyside	Environ.	N	N	BCCA	2.7	FCFC	1.8	30	1.6	25	DDDC	DCCC
Fresno	Law	N	Y	CDDB	1.7	FDBB	1.7	35	1.1	25	DDDC	DDDA
Sunnyside	Law	Y	Y	DDDB	1.5	BDCC	1.7	40	1.1	25	CCCC	DCCF
Bullard	Finance	Y	Y	CDDC	1.7	BDC	1.8	35	1.6	25	DFFC	FDDD
Sunnyside	Finance	Y	Y	DDCC	1.5	BCBF	1.7	35	1.1	25	DDCC	DDDB
Sunnyside	Finance	Y	Y	CCCB	2.2	FD	1.6	25	1.3	30	CDCA	DDDC
McLane	Database	N	Y	DDCC	1.5	AACC	2.2	40	0.8	15	FFFF	DBBA
Bullard	Marketing	Y	Y	CCBB	2.5	DBFD	1.8	35	0.8	10	FCCC	FCDD
Hoover	Law	Y	Y	CCCB	2.2	CDBA	2.3	40	1.6	25	CCCC	DCCA
Bullard	Law	Y	Y	CBCB	2.4	CBC	2.4	35	1.2	30	BBBC	BCBA
Hoover	Environ.	Y	Y	CCCC	2.0	DBA	2.2	35	1.3	30	DCDB	DDFD
JE Young	Environ.	Y	Y	BDCZ	2.5	CAB	2.7	35	1.6	25	CDCB	CDCC
Fresno High	Environ.	Y	Y	AAAA	4.0	ABAA	3.8	40	3	25	BAAA	BBBA

Members of the public were given an opportunity to address the Board.
There was no one present to address the Board.

**PUBLIC
PRESENTATIONS**

The meeting adjourned at 5:34 p.m.

ADJOURNMENT

Respectfully Submitted,
Larry Fortune, Chairman, CART JPA Board of Directors

CART: 05.11.10.ac