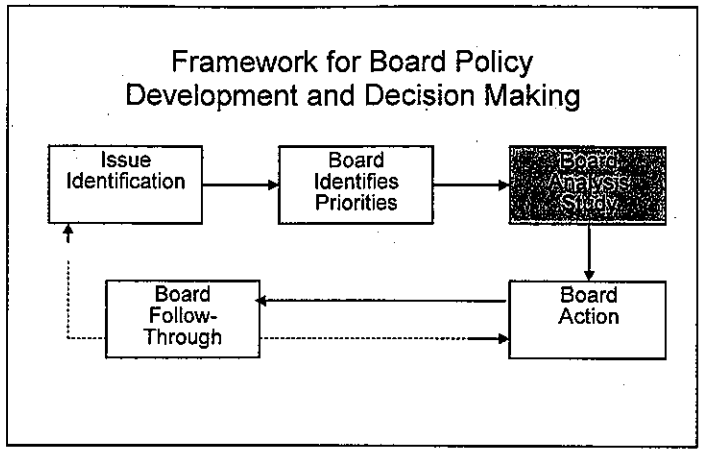
Iowa State Board of Education

Executive Summary

July 30, 2009



Agenda Item: The HyperStream Program (Innovation)

Iowa Goal: All K-12 students will achieve at a high level.

Individuals will pursue postsecondary education in order to drive economic success.

Equity Impact Statement: All Iowa students need access to information about career options in order to plan and prepare for the future.

Presenters:

Jennifer O'Connor
Program Director for HyperStream

Leann Jacobson
President of the Technology Association of Iowa

Michael Schmitz
HyperStream Ambassador

Jeremiah Lehr
Dike-New Hartford Technology Coordinator
(HyperStream Educator Champion)

Jennifer O'Connor
Director of Programs and Events
Technology Association of Iowa

Attachments: 1

Recommendation: The State Board will hear and discuss this information.

Background: Hyperstream is a program for Iowa's 8th – 12th graders, developed by the Technology Association of Iowa, to increase student interest in technology and technology careers through grassroots

collaboration between schools and technology companies. Ambassador technology companies agree to lead the HyperStream program in collaboration with teacher champions in an area school. The program is designed to create an interest in Science, Technology, Engineering and Mathematics (STEM) coursework and an awareness of career opportunities through:

- Long-term partnerships including mentoring in professional areas, job shadowing and intern opportunities for both students and teachers
- Ambassador visits to classrooms
- HyperStream clubs
- Ambassador assistance – advising students on technology projects and competitions
- An interactive website with portals for students, educators and parents to find information and share ideas

HyperStream encourages youth to pursue postsecondary technology education to prepare for Iowa technology careers.

HYPERSTREAM

THE TECH HUB FOR IOWA STUDENTS

What is HyperStream?

HyperStream is a program for ALL of Iowa's 8th-12th graders, developed by the Technology Association of Iowa, that turbo charges students' passions and interests in technology and technology careers through grassroots collaboration between schools and technology companies.

What is the goal of HyperStream?

HyperStream encourages Iowa youth to pursue post-secondary technology education to prepare for Iowa technology careers – some of the highest-paying, rewarding positions in the workplace. The supply of Iowa technology workers continues to fall below the demand. HyperStream works to turn around these disturbing trends.

How does HyperStream work?

Ambassador technology companies agree to lead the HyperStream program in collaboration with teacher champions in an area school. This includes sparking an interest in STEM coursework and an awareness of career opportunities through:

- A long-term partnership, providing students with mentors in professional areas, including job shadowing and internship opportunities for both students and teachers
- Ambassadors visiting classrooms to introduce students to HyperStream and generate interest
- HyperStream clubs, providing a structure for HyperStream
- Company Ambassadors advising students on technology projects and competitions
- Highly interactive Web site with portals for students, educators and parents to find information and share ideas

Why will HyperStream succeed?

HyperStream disproves the myths surrounding technology-related careers:

- Tech jobs are "geeky" – people sit in cubicles all day
- Tech jobs are being outsourced – there are no jobs in the state
- Tech jobs require geniuses – especially in math and science
- Tech jobs are complex – it's what boys do

HyperStream encourages students to discover their passions and interests. Once that happens, they can understand all the cool technology innovations and career opportunities available to them in their fields of interest within the state of Iowa.

What is the Technology Association of Iowa?

HyperStream was created by the Technology Association of Iowa (TAI). TAI is a member-based, not-for-profit organization accelerating the success of Iowa's technology industry. TAI works to create and sustain a positive environment for technology-based economic growth and job creation through innovation, advocacy and leadership. TAI members include organizations of every size – involved in virtually every aspect of technology creation, production, application and education in Iowa. More information about the TAI can be found at its Web site, located at www.technologyiowa.org.

TECHNOLOGY ASSOCIATION OF IOWA

A program developed by the Technology Association of Iowa Educational Foundation

www.hyperstream.org | parents.hyperstream.org | educators.hyperstream.org

HYPERSTREAM

THE TECH HUB FOR IOWA STUDENTS

Why Students, Educators and Administrators Will Love HyperStream

HyperStream will make technology seem so fascinating that all types of students will want to join the program — from students who spend their weekends building computers to those who just want to be involved in fun and creative technology-related projects with their friends. HyperStream educates students, teachers and administrators about the world of technology and the tremendous opportunities in Iowa technology careers!

Why Students Will Think HyperStream is Pretty Sweet!

- **Pursue Passions and Interests:** HyperStream shows students how technology will play a role in whatever they decide to pursue — from environmental issues to fashion design to Web development.
- **Professional Mentors:** Local experts that work down the road and shop at the same stores will share their insight and encourage new discoveries.
- **Interactive Web Site:** Informative Web site highlights the benefits of technology education and invites students to participate in ongoing content development – think Iowa tech Wiki!
- **Real World Experience:** HyperStream participants can see what life's like in the world of technology through job shadowing and interning with local companies.
- **HyperStream Clubs:** These groups give students the chance to make a difference with community and school projects guided by tech professionals and their teachers.
- **STEM Support:** HyperStream highlights how STEM coursework prepares students to succeed in post-secondary education and in their future careers.

Why Teachers and Counselors Will Embrace HyperStream!

- **Experienced Partners:** Teachers can collaborate with tech professionals on fresh lesson plan ideas and real world learning experiences.
- **STEM Promotion:** HyperStream pumps up the incentives to take STEM courses.
- **Web Resources:** Lesson plan ideas, forums to share best practices, detailed info about the Iowa tech community, and more will make the teachers and counselors' sub-site of the student HyperStream Web site an invaluable go-to resource.
- **Local and State Opportunities:** Tech experts will assist educators with establishing HyperStream Clubs and planning for state technology competitions.
- **Job Shadowing:** HyperStream partners will give educators the opportunity to learn in the classroom of business through summer job shadowing.
- **Career Savvy:** Teachers and counselors can bring their knowledge of the exciting technology career opportunities back to their learning and planning environments.

Why Schools and Administrators Will Get On Board!

- **CIO Advisor:** Superintendents and principals can benefit from a professional partner's help in strategic tech planning and infrastructure for the school system.
- **Technology Advisory Board:** Tech professionals can offer best practices, ideas and connections to effectively meet the technology needs of the district.

TECHNOLOGY ASSOCIATION OF IOWA

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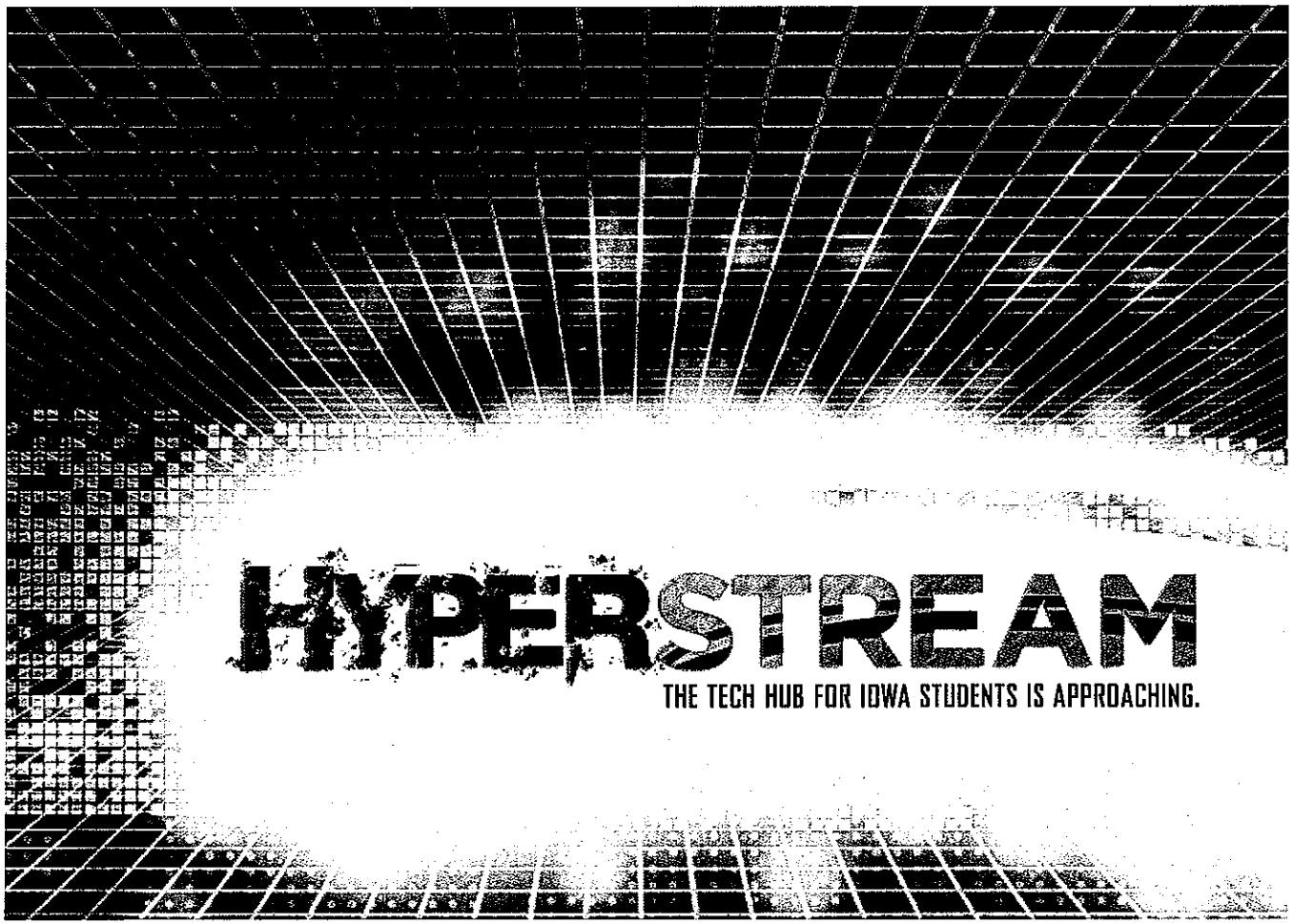
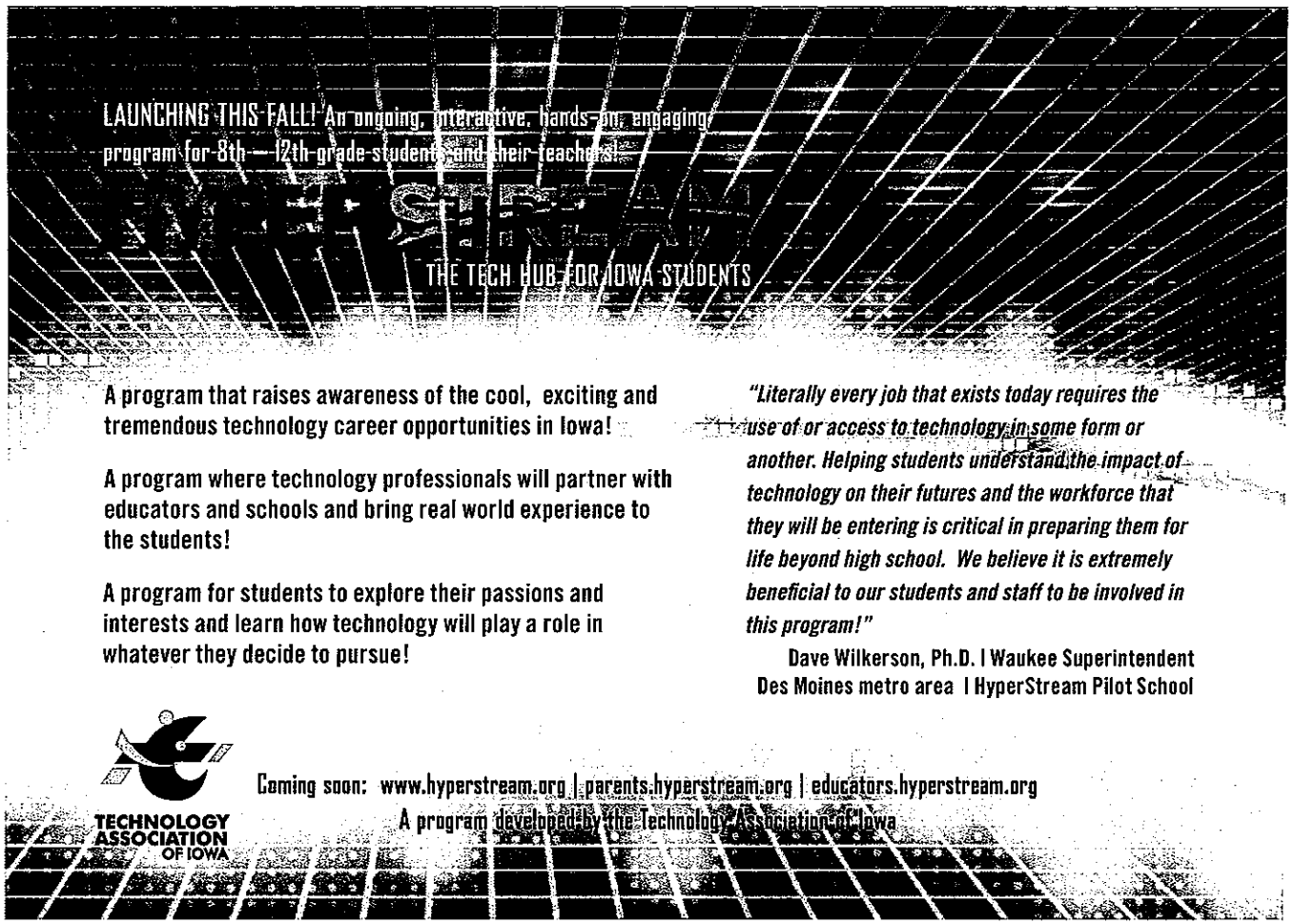

HYPERSTREAM
THE TECH HUB FOR IOWA STUDENTS IS APPROACHING.


LAUNCHING THIS FALL! An ongoing, interactive, hands-on, engaging program for 8th – 12th grade students and their teachers!
THE TECH HUB FOR IOWA STUDENTS
A program that raises awareness of the cool, exciting and tremendous technology career opportunities in Iowa!
A program where technology professionals will partner with educators and schools and bring real world experience to the students!
A program for students to explore their passions and interests and learn how technology will play a role in whatever they decide to pursue!
"Literally every job that exists today requires the use of or access to technology in some form or another. Helping students understand the impact of technology on their futures and the workforce that they will be entering is critical in preparing them for life beyond high school. We believe it is extremely beneficial to our students and staff to be involved in this program!"
Dave Wilkerson, Ph.D. | Waukee Superintendent
Des Moines metro area | HyperStream Pilot School
TECHNOLOGY ASSOCIATION OF IOWA
Coming soon: www.hyperstream.org | parents.hyperstream.org | educators.hyperstream.org
A program developed by the Technology Association of Iowa