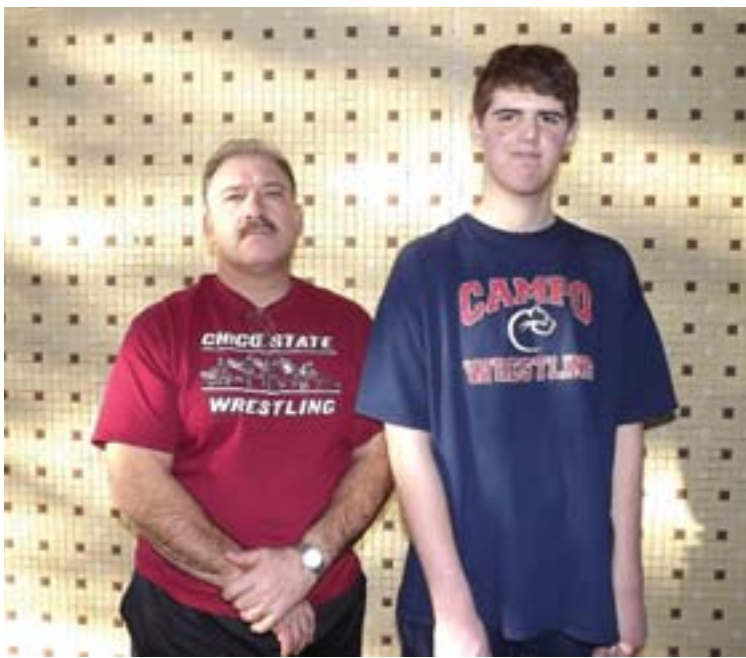


# Campo Wrestler Happy with Losses and Wins

By Cathy Dausman



Campolindo High School wrestler Jeremy Dunbar (right) with his coach Bob McLaughlin. Photo Cathy Dausman

Campolindo High School student Jeremy Dunbar stands over 6 feet tall, but nowadays there is less of him to see. The CHS junior has lost nearly 50 pounds recently “to be more helpful” to his wrestling team.

A former track and field participant, Dunbar has wrestled since his freshman year; going the entire season without a single win. Last year Dunbar wrestled in the 285 weight class on the junior varsity team and had only one win to his credit. Thanks to self-discipline, exercise, and eating on the healthier side – less sugar and fewer carbohydrates, he says – Dunbar, who plans to attend culinary school after graduation now wrestles as a 195-pounder.

Perhaps he was inspired by his coach, who lost a similar amount within the last year, but Dunbar has

earned himself a slot on the varsity team. “He’s just flowered [this year],” said Coach Bob McLaughlin, whose admiration for the young man comes through loud and clear. McLaughlin recounts a recent cross-town rivalry meet, an away game for Campolindo wrestlers: “Jeremy had to move up to heavy weight class (over 220 pounds). His opponent was 268 pounds. Jeremy gets taken down. Slowly he gets a reversal. Then he throws a half, turns the guy and pins him. The stands go crazy. Some 20 alumni standing behind our bench start chanting ‘Jer-e-my! Jer-e-my!’ Think about being that guy and having every stud in your high school standing and chanting your name because you are the victor; you are in the arena and you are still standing.”

Dunbar calls that his “deciding match,” but said there are a few things he still struggles with – patience and confidence, for example. Wrestling, he said, is a muscle memory sport, and so he continues to improve.

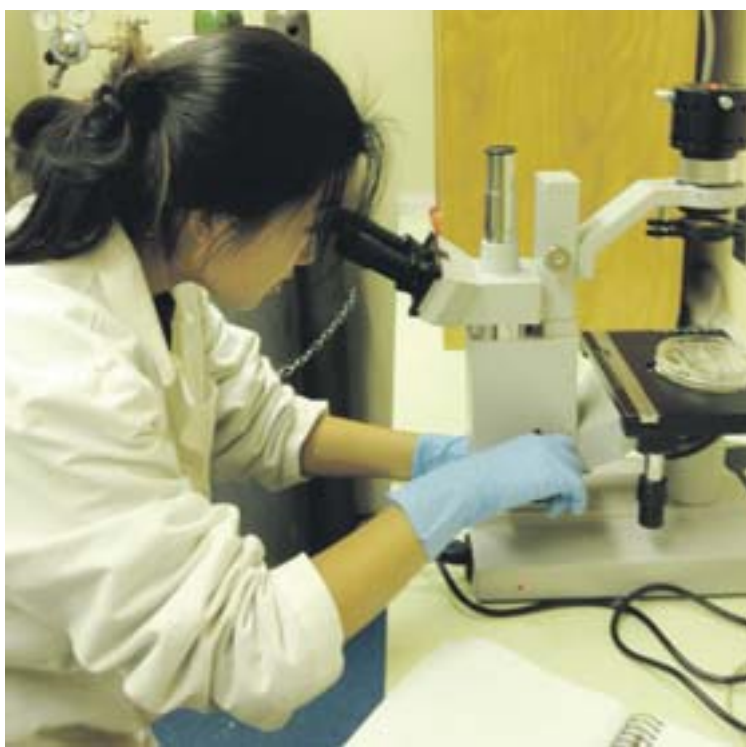
The student who McLaughlin said runs every mile and does every pushup during practice vows to keep working hard – for his teammates, his parents and his older sister.

“Jeremy comes into practice every day with a great attitude, wanting to get better. He has improved day by day, working hard and never giving up,” said Campolindo Athletic Director Tom Renno.

“I have coached state champions and high school all-Americans for 19 years – been there, done that,” McLaughlin concluded. “Never been so proud!”

# Orinda Student Named Finalist in Science Talent Search

By Lou Fancher



Orinda resident Kelly Zhang at the University of the Pacific lab. Photos provided

Orinda’s Kelly Zhang, a 17-year-old senior at Oakland’s College Preparatory School, shined an eerie, green light into a petri dish, earning an elite position as one of 40 finalists in the 2013 Intel Science Talent Search.

Since 1942, the Intel STS has brought the nation’s brightest high school seniors to Washington, D.C. to present their innovative research projects to recognized, professional scientists in a national forum and competition.

Struck by the real world tragedy of a vigilant cancer that returned to take the life of a friend’s father after surgery, Zhang embarked on a nearly three year mission to help surgeons see cancer cells.

“Right now, there’s no imaging system to allow them to see,” she said. “Surgeons use their hands to feel a tumor. When you open someone up, it’s not all laid out like the textbooks show. It’s messy, fleshy.”

Cancer cells left behind, grow, proliferate, and often result in death, she added.

Outraged, but characteristically rational, Zhang began to read. “I started with simple articles. Each article linked to another paper and I kept finding out new information,” she recalled.

Eventually, she pooled her thoughts. Most of the research suggested injecting metals, or synthetic polymers into cancer cells. Nanotechnology – a scientific field involving the manipulation of molecular-scale systems or elements – focused on delivering drugs to tumors.



Kelly Zhang

Zhang knew she couldn’t make medicine: her “ah-ha!” moment came when she stumbled upon an article about dyes.

“I had all the articles open, when I realized, I can make a nano and I can add dye to a nano,” she said.

Using albumin, a natural blood protein, Zhang made a nanoparticle a thousand times smaller than the width of one human hair.

“I made it in a lab at the University of the Pacific, where Professor Bhaskara Jasti had put me under the oversight of a graduate student. But making a nano isn’t the new part,” she said, impatient to finish her narrative, “after making it, I added a common fluorescent dye they had in the lab.”

Incubated with cancer and normal cells, Zhang’s nanoparticles proved to be tumor receptive. Cancer cell lines glowed green, when viewed through a florescent sensitive camera; normal cells did not. Injected into a cancer patient, an imaging system could significantly improve a surgeon’s ability to detect and extract all of a patient’s tumor.

Jubilant, Zhang shared her results with her parents, Michelle Sun, a primary care physician, and father Tony Zhang, whose work involves advising small medication formation businesses.

“This is a very exciting project, but don’t expect to win any prizes,” her father cautioned.

“I am so happy for you, because you initiated this project on your own,” her mother told Zhang, hiding her worry that without support, the findings would be a personal, but never a public, victory.

But Zhang, whose interest in science has blossomed during her high school years, demonstrated the stick-to-itiveness of many a scientist and sent her application to the program run by the Society for Science & the Public. Hers was one of 1,712 entries this year.

When the call came in that she had been selected, she was skiing in Bear Valley.

“The call dropped a number of times, but when the lady told me, I was shocked,” Zhang said.

“It’s a good lesson for both of us,” her mother added, “a lesson to never give up.”

In March, Zhang will accept the \$7,500 award given to 30 finalists, or be selected for one of the larger prizes awarded to 10 of the young scientists. Regardless, she’s thrilled to have the opportunity to “talk with other brilliant kids” and to meet top-notch scientists from all over the world.

Zhang says she is privileged to live in Orinda and is a hybrid, made up of her Chinese and American heritage. “As a Chinese person, I’m willing to work hard, not give up. The American side is more romantic: to dream.”

Her dreams are guided by the impact of her church, where an outreach travel/work program opened her eyes to living conditions in other countries. And by activities like running, swimming, playing guitar, and developing her website, www.biolabscope.com, where kids without access to labs can learn about science by watching videos.

“I want to be able to be a part of a bigger project,” she said. “A medical project that can affect people’s lives.”

In fact, she already is.

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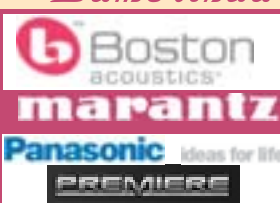
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