



# IB *matters*

**May 2018**

Douglas County High School

2842 Front Street

Castle Rock, Colorado 80104

Volume 21 Issue 3

## IB End of Year Banquet 2018

### **Great Time at the Annual IB Banquet!**

On a beautiful spring evening over DCHS IB students, parents, guest, teachers and staff celebrated the end of another successful academic year.

Teachers were presented with funny awards and a raffle was held with prizes for freshmen, sophomores and juniors. The night culminated with Dr. Fleet present the IB Learner Profile awards.

The IBPO wishes the seniors success in their college careers.

(Sophomores-remember-it's CAS time! Check the IBPO web site for suggestions and your CAS guide.)

The IBPO, IB students, parents, teachers and staff said farewell to the main stay of the program. Tracy Hagan is retiring.

**Class of 2018 IB Learner Profile**

<b>Learner Profile</b>	<b>Student Name</b>
Inquirer	Jan Chang
Knowledgeable	Sedique Pitsuwan
Thinker	Berkley Nahum
Communicator	Tara Oldenburg
Principled	Keller Barry
Open-Minded	Darcy Brander
Caring	Kaylee Schuler
Risk-Taker	Blayn Masoner
Balanced	Lina Corrales
Reflective	Audrey Roberts
Outstanding IB Student	Karson Hilgendorf

# School statistics May 2017

## School statistics

Number of candidates registered in the session:	78
Number of diploma and retake candidates registered in the session:	38
Number of subject entries in the session:	330
Number of candidates who passed the diploma:	28
Average points obtained by candidates who passed the diploma:	29
Highest diploma points awarded to a candidate:	35
Average grade obtained at the school by candidates who passed the diploma:	4.70
Total number of candidates excluded from statistics:	0

- EE Stats for School:

## Subject results

### Subject results - grade distribution

Subject	Number of Candidates	Grade							Highest grade	Lowest grade
		A	B	C	D	E	P	N		
<b>Subject Group 1</b>										
ENGLISH A EE	2	0	1	0	1	0	0	0	B	D
<b>Subject Group 3</b>										
HISTORY EE in ENGLISH	3	0	1	2	0	0	0	0	B	C
HUMAN RIGHTS EE in ENGLISH	5	1	2	2	0	0	0	0	A	C
PEACE&CON.ST. EE in ENGLISH	3	0	0	2	1	0	0	0	C	D
PHILOSOPHY EE in ENGLISH	2	0	1	0	1	0	0	0	B	D
POLITICS EE in ENGLISH	4	1	2	1	0	0	0	0	A	C

PSYCHOLOGY EE in ENGLISH	5	0	0	3	2	0	0	0	C	D
WLD. STUDIES EE in ENGLISH	1	0	0	1	0	0	0	0	C	C
<b>Subject Group 4</b>										
BIOLOGY EE in ENGLISH	2	0	0	1	1	0	0	0	C	D
CHEMISTRY EE in ENGLISH	3	0	0	2	1	0	0	0	C	D
PHYSICS EE in ENGLISH	1	0	0	1	0	0	0	0	C	C
SPORTS EX SCI EE in ENGLISH	2	1	1	0	0	0	0	0	A	B
<b>Subject Group 5</b>										
MATHEMATICS EE in ENGLISH	3	0	1	2	0	0	0	0	B	C
<b>Subject Group 6</b>										
DANCE EE in ENGLISH	1	1	0	0	0	0	0	0	A	A
VISUAL ARTS EE in ENGLISH	1	1	0	0	0	0	0	0	A	A

In case you all didn't know already, I will be retiring at the end of the school year!

We had our IB Year End Celebration last week and I wanted to share a few pics that the new IB Secretary (Kathy Kramer) shared with me. I had a wonderful time and thank EVERYONE for such kind words and gifts.

DCHS Rocks! Thank you also to the IBPO, I couldn't have done what I did without your help!

It has been a great ride and will cherish the memories of this place, but I must keep on going with my journey. My goal is to see all there is of Colorado, then branch out to the rest of the states in our 5th wheel with my wonderful husband and two pups!

Also, I would like to introduce you to Kathy Kramer our new IB Secretary. She is wonderful and you all will enjoy her so much.

My last day at DCHS is May 25th! Yippee!

Thanks for the memories!

Tracy Hagan





## Coordinator's Corner

*by Dr. Steve Fleet, DCHS IB Coordinator*

*Evil is the interruption of a truth by the pressure of particular or individual interests."*

I want to give thanks to Tracy Hagan for all that she has meant for our International Baccalaureate program at Douglas County High School. Dedicated professionals make public education possible, and Tracy's commitment to the needs of students, staff and community helped hundreds of families navigate the rigors and complexities of the program. Tracy's talents for maintaining a clear perspective during the most stressful moments and for adding humor to moments that might otherwise succumb to tedium exemplify the ideals of the *Learner Profile*, especially the importance of caring about others. Our program will greatly miss her contributions as we transition into a new phase in the history of our program.

I urge all students to find time this summer to spend with friends and family in order to recharge for the upcoming year. Summer is one of the great benefits of our educational system, not just for the free time, but for the chance to put the hectic pace of the school year into perspective. Develop habits of exercise and good diet. Laugh and play. Read for pleasure. I am truly grateful for the talent of the students and staff at Douglas County High School and want to wish you all the most restful of summers and look forward to the adventures of the coming year.

Contacts / title

IB Coordinator

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## SPRING ARTS FESTIVAL 2018

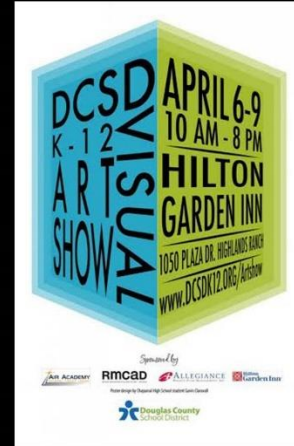
The 2018 DCHS Spring Arts Festival was a huge success this year! Hundreds of pieces of student art were on display from every art class, industrial arts, theater tech, and several of our feeder area elementary school art classes!

A Senior reception was held on Thursday, April 26th, where the National Art Honor Society members, students receiving Letters in Art, and the Graduating Seniors were recognized.



Name- Penn Stone  
Grade-12  
Teacher- Stanch  
Project- Stanch  
Class- Metals





# ART AWARDS

## Scholastics

(State Show)

2 Gold Keys, 3 Silver Keys and 1 Honorable Mention  
(Details in the last Huskie Happening)

## IB Senior Show

13 IB Art Student Portfolios exhibited

## Continental League Art Show

Mitchell Lensing - 2nd Place for Ceramics

Holly Pickens - 3rd Place for Mixed Media

## District Show

Kaylee Schuler – 1<sup>st</sup> Place Sculpture & Honorable Mention Mixed Media

Morgan Hutson – 2<sup>nd</sup> Place Mixed Media & Photography Honorable Mention

Talia Berglund- 2<sup>nd</sup> Place Painting

Jenny Lansdon- 3<sup>rd</sup> Place Drawing

Ellie Creasey – Photography Honorable Mention

Adam Taylor – Honorable Mention Ceramics

## Spring Arts Festival DC Show





**Record Year**

**for**

**Art Awards**



## Extended Essay Titles for the Class of 2018

To what extent is meat consumption negatively impacting the environment due to extensive emissions of greenhouse gases and a loss of valuable resources in comparison to a vegetarian diet?

Subject: Earth Systems and Societies

Research Question: Evaluate how the ethics of China's ecocentric local governments and its anthropocentric central governments affect China's ecosystems.

Subject: Environmental Systems and Societies

The Restoration of the Black-Footed Ferret into American Prairie Land

Which of the methods described create the most impact in delisting Black Footed Ferrets from the Federal List of Threatened and Endangered Wildlife?

Subject: Environmental Systems and Societies

The Role of Hydroponic Crop Cultivation in the Pursuit of Domestic Food Sustainability

To what extent can the use of hydroponic food cultivation be used to supplement the realm of domestic food production and contribute to household food sustainability?

World Studies, Environmental Sustainability, Environmental Systems and Societies

How does Forman's movie interpretation of Ken Kesey's novel, *One Flew Over the Cuckoo's Nest*, maintain the same spirit and ideas of the novel through contrast of the point of view, structure, and a shift from surrealism to realism?

Literature and Performance Group 6

Minnie's and Celia's relationship in the novel and the film, *The Help*, and its impact on racial society.

Research Question: Discuss how Minnie's and Celia's relationship in Kathryn Stockett's, *The Help*, impacts racial society in the 1960's and the effects of the transformation from novel to movie.

Subject: Literature and Performance

The Translation of Teddy Daniels from Shutter Island

To what extent is Teddy Daniels' (Andrew Laeddis') psychological trauma from Dennis Lehane's Shutter Island translated into Martin Scorsese's film version of Shutter Island?

Subject: Literature and Performance

To what extent does the romantic focus of the Hunger Games: Catching Fire movie, with respect to the more rebellious themes portrayed in the book, and the popularity and success of Dystopias as a whole, suggest that present society is slipping into the viewpoints of Panem?

Subject: Literature and Performance

To what extent has South Africa recovered from the institutional racism policies of the apartheid era and how have they impacted South Africa under Jacob Zuma?

Subject: Global Politics

Top-Down and Bottom-Up Approaches to Climate Change in Politics

Research Question: To what extent are top-down and bottom-up approaches to climate change effective, with reference to the Bush and Obama presidencies?

Subject: Global Politics

To what extent does populist ideology contribute to the immigration policies of Le Front National and contrast itself to current UN Resolutions on immigration?

Subject: Global Politics

El Lenguaje y Los Roles de Género

“¿Hasta Qué Punto Afecta el Idioma de Español a Los Roles de Género?”

Español B, Cat 2 (a)

Morality and lies

Philosophy

How did Poor Governance Contribute to the Collapse of the Polish-Lithuanian Commonwealth?

Subject: History

Black Feminism Within the US “To what extent was the black feminist movement attempts at political liberation successful throughout the 60s, 70s, and 80s?”

History Group 3

To what extent was Nazi regime propaganda successful in domestic unification of Germany from 1939 to 1944?

History G3

To what extent is the Electoral College an effective means of electing a president?

History Group 3

How is the Human Experience Represented by the Lyrics of Rock Ballads?

The philosophies of Creativity and Insanity

Discuss the roles of Creativity and Insanity in the philosophical realm, and if there is any correlation or line between them.

An Analysis of the Reasoning and Application of Existential and Nihilistic Philosophies: From the Clouds

Down to Earth “What system of reasoning, considering nihilism and existentialism, holds more pragmatic use in reasoning and application to the real world?”

Philosophy, Group 3

Perceiving Art in The Physical World - How does perception alter the meaning of art?

Philosophy

Psychology

Are problems with working memory present with ADHD and to what extent should these problems be fixed?

Stressors and their impact on academic performance to distinguish the differences in the impact of academic stressors to personal stressors on the academic success of adolescents and college students?

Subject: Psychology

Change Through Integration Research Question: Will organizational change occur most efficiently as a larger group process or a culmination of individual wills?

Psychology HL, Group 3

Homosexual Parenting on the Development of Children - Discuss the role of homosexual parenting in parent-child relationships and gender-role behavior.

Subject: Psychology

The Effects of School Start Times and Sleep Deprivation on Adolescent Cognition

To what extent do school start times and subsequent sleep deprivation negatively affect cognition and how does this affect learning?

Psychology

Psychology B

Examining the biological process of sleep and the effect it has on the cognitive process of memory when sleep is limited-

To what extent does sleep deprivation affect the cognitive process of memory?

Compare and Contrast the Effects of Warm Colors to Cool Colors

Psychology

Group 2

Sensory Abnormalities and the Influence of Stimuli in Autistic Spectrum Disorders

“To what extent do sensory abnormalities and surrounding stimuli affect the ability to function of someone on the autistic spectrum?”

Psychology Group 3

Emotional Intelligence and Violent Behavior

“To what extent does teaching emotional intelligence to students impact violent behavior in adults?”

Psychology HL, Group 3

## The Relationship Between Anti-terrorism Legislation and Civil Liberties/Rights

“To what extent has terrorism within the United States prompted changes in U.S. legislation, thereby sacrificing civil liberties in the process?”

World Studies

## Western Influence on the Modernization of Hinduism

“To what extent have western influences shaped the modernization of Hinduism in the caste system, religious texts, and practices from the British colonization of India and on?”

World Religions, Group 3

Research question: What are the evaluated effects of *Herpestes javanicus* on the island of Fiji, and what designs can we implement to control invasive species?

Subject: Biology

## Bioluminescent Bacteria and Their Reaction to Different Types of Light for a Similar Period of Time and

What This Details About Bioluminescence

Could changes in environmental light affect the brightness emitted in bioluminescent bacteria?

Subject: Biology

## Assessing the potential use of *Lemna minor* as natural wastewater purification tool

Research Question: How can *Lemna minor* be used to determine water quality and purify polluted eutrophicated bodies of water?

Subject: Biology B, Category

## Elevations effect on a human's heart rate

Explain how elevation affect a person's heart rate?

Subject: Biology

## Title: Different Oceanic Environments on Calcium Carbonate Composition in The Coral Reefs

How do differing oceanic environments of salinity and temperature help us to evaluate the decomposition of calcium carbonate when introduced to an acidic environment and the impact of it on the coral reef?

Subject: Chemistry

## EXTENDED ESSAY IN CHEMISTRY

The Effect of Used Versus Unused Fatty Acid Oils on the Production of Biodiesel

The Effects of Stressors on Student Athletes “How Can We Deduce The Effects of Stress are Negatively Affecting an IB Student Athlete’s Performance?”

Sports, Exercise, and Health Science Group 4

How do different Apolipoprotein E alleles correlate with the development of Chronic Traumatic Encephalopathy?

Will analyzing the correlation between injured student athletes and increased symptoms of depression and anxiety through a survey show whether or not a recovering athlete support program should be implemented in schools?

Sports, Exercise and Health Science

Difference in Endurance between Vegetarian and Non Vegetarians

“How does the value of dietary differences between a vegetarian and an omnivore evaluate their performance in endurance training?”

Sports, Exercise, and Health Science. Group 4

How does a player gain an advantage over an opponent in terms of the different stroke and the muscles used?

Subject: Sport, Exercise, and Health Science

Discuss how prime numbers have changed throughout history and affected the modern world.

Subject: Mathematics

How Does the Use of Minimum Spanning Tree Analysis Overcome Methodological

Issues in the Comparability of Results Obtained From Graph Theoretical Analysis of the Brain?

Mathematics



## Mathematical Analysis of Pharmacokinetic Parameters

Does the Pharmacokinetics of Bupropion in Fed and Fasting Conditions Support the FDA's Findings?

Mathematics

How do the mathematics behind RSA encryption justify the near-impossibility of a third party breaking into RSA encrypted data?

Subject: Mathematics

How does the Ford Fulkerson Algorithm compare to Dijkstra's Algorithm and the Bellman Ford Algorithm, in its effectiveness to calculate and design efficient routes for mail delivery companies such as UPS?

Group 5: Mathematics

How does Yann Tiersen's 'La Valse d'Amelie' demonstrate minimalistic influences from popular composer Philip Glass?

SUBJECT: The Arts

## HELP WANTED

The IB Parent Organization is a group of dedicated parents of IB students at DCHS that organizes events and activities throughout the school year. The IBPO is looking for parents to help out with various activities. Several IB parents have students graduating this year. See the IBPO website for the date of our next meeting. If interested, contact Randy Chambers at [cohomeconnection@yahoo.com](mailto:cohomeconnection@yahoo.com).

### DCHS IB Calendar

#### **AUGUST**

Wednesday, Aug 22 Ice Cream Social – North Commons 5:30pm

#### **SEPTEMBER**

Thursday, Sep 13 Jr. IB Induction Ceremony – Auditorium/North Commons- **6:00pm**

#### **OCTOBER**

Monday, Oct 8 Fall Break

#### **NOVEMBER**

Thursday, Nov 8 8<sup>th</sup> Grade IB Information Meeting – North Commons- 5:30pm

#### **DECEMBER**

Tuesday, Dec 4 8<sup>th</sup> Grade IB Information Meeting – North Commons- 5:30pm

#### **JANUARY**

Thursday, Jan 10 10<sup>th</sup> Grade Mandatory CAS/TOK/EE Grad Panel Meeting – Auditorium- 5:30pm

Wednesday, Jan 16? 8<sup>th</sup> Grade Freshman and New Family Orientation Night. (All school event)

#### **FEBRUARY**

Saturday, Feb 2 or 9 TBD Princeton Review/Practice Act Testing

#### **APRIL**

Tuesday, Apr 23 IB Year End Celebration – North Commons **5:30**

