

# 足高SSH通信

<http://www.tochigi-edu.ed.jp/ashikaga/>

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足利高校SSH  
研究推進委員会

## 第1回SSH海外研修(シカゴ～イリノイ大学スプリングフィールド校)に行ってきました！

SSHの取り組みとして、本校初となる海外研修が7月13日～20日（7泊8日）の日程で実施されました。この研修には2年生16人（団長含め引率者4人）が参加し、全員が体調を崩すことなく、全日程を無事終えることができました。

### 大学での講義・実験などどれをとってもハイレベルな研修内容

この研修の目的は、将来、国際的視野を持ちグローバルに活躍し社会に貢献できるよう、科学的創造力・思考力を高めるとともに英語によるコミュニケーション能力を向上させることにあります。

そのため研修の内容は、科学的知識を必要とする大学の研究室での実験やEmiquon（古くからの地名）にあるThompson lakeでの湖上実習、また、講義や教授陣との会話をほとんど英語で行うコミュニケーショントレーニングなど、すべてにおいて国内では経験ができない貴重なものでした。

### 終了後の達成感と成成感ハンパじゃない！！

参加した生徒たちにとって、この8日間は、慣れない外国での生活から来る緊張と高度な研修に戸惑いながらも積極的に取り組み全力で駆け抜けた毎日でした。それだけに、研修を終えた時にはすべての生徒に浮かんだ表情は、達成感と成成感に満ち溢れていました。

### 日程

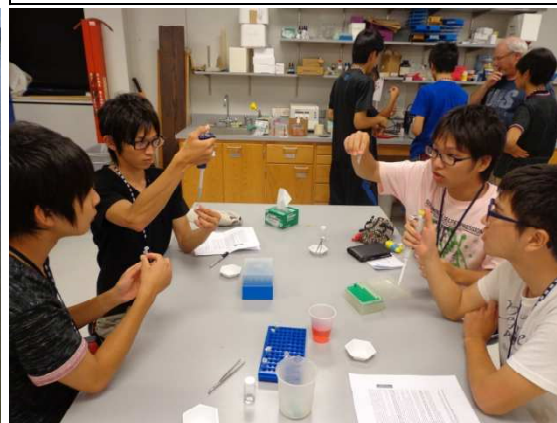
- 7月13日（土） 成田からシカゴへ  
シカゴ・ウィリスタワー研修（建築技術）
- 7月14日（日） シカゴ・アドラー天文台見学  
シカゴ・フィールド博物館研修  
（DNAラボ、水生生物など）  
スプリングフィールド移動  
UISオリエンテーション
- 7月15日（月） Emiquon 研修（①講義、②湖水の水質検査、  
③水生生物・微生物採集と観察）  
UIS実験（①遺伝子の構造に関する講義、  
②水生昆虫のDNA抽出・PCR法による種の同定）



出発前の元気な姿（引率者含め）

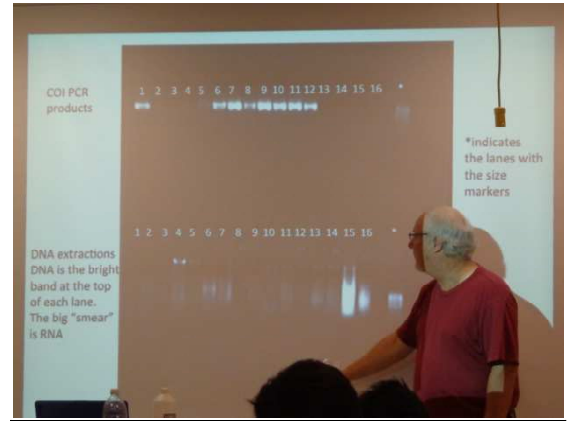


Emiquonでの水質検査



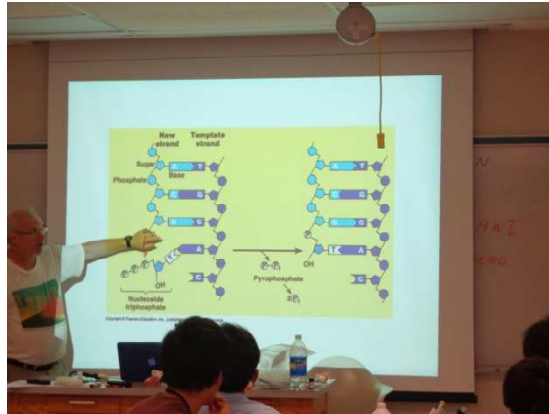
成功するか？DNA抽出

7月16日(火) U I S実験(ヒトDNAの抽出実験)  
 U I S実験(①毒性に関する講義、  
 ②ミジンコを使った毒性実験と水質検査)  
 姉妹都市交流協会主催の晩餐会



PCR結果の画像を見ながらの講義

7月17日(水) U I S実験(DNA塩基配列に関する講義)  
 U I S実験(前日の毒性実験の結果確認、  
 グラフ作成と分析)  
 プレゼンテーション講義



DNA塩基配列に関する講義



厳しいプレゼンテーション事前指導

7月18日(木) プレゼンテーション準備  
 プレゼンテーション グループA「湖水に生息する微生物」 グループB「水質検査」  
 グループC「毒性実験」 グループD「遺伝子読み取り」  
 閉講式



プレゼンテーション後の記念撮影



お世話になった教授陣との記念撮影

7月19日(金) スプリングフィールドからシカゴを経て成田へ



苦しい研修の成果(修了証)

## 生徒の感想

All the experience were a first for me. And I had a very good time in America. I was able to spend a very significant one week. In the future, I would like to go back to America again! I thank my parents from the bottom of my heart.

Hidetoshi Kowase

This trip was my first time going abroad. So I was very excited. My best memory of this trip was to play volleyball with American girls and Mexican girls and boys. We enjoyed playing volleyball very much. After that we partied with them and some other Americans. I had a great experience.

Kaito Koizumi

The experiments were all conducted in English, but they were not too difficult. The professors were very kind and clear in their lectures and instructions. We don't have such opportunities to attend science classes conducted in English in Japan. I'll never forget this precious experience.

Satoru Shibui

This was the first time for me to go to the U.S. So the people, buildings and culture were very interesting. And people were kinder than I had expected. For me, the U.S. was the New World!

Takumi Kasiwase

I thought that the place called Japan was more wonderful. I am glad to be able to have such a precious experience. And I am thankful to the teachers and parents who gave me such an opportunity. Please do not miss the opportunity to go if you have the chance to.

Kojiro Okuyama

As this study and training was a first for me. I could have a good time. In particular, I remember the pleasure that I could get having a conversation with a foreigner for the first time. I would like to use this experience in the future,

Shuheii Eguchi

I am glad to be able to participate in this activity. My best recollection is the many experiments we did in the USA. Some experiments were successful, other were not. However I learned a lot of things through this activity and it was a great experience.

Toshiki Abe

When I arrived at Chicago airport, I got nervous because the customs officer was dreadful! But American people (except him) were very kind to us! And the experiments in UIS were very interesting! I'd like to go to America again!

Joji Kawasaki

We stayed seven days in a foreign land, America. My English have improved incredibly. To be honest, it is difficult to speak it, but I was able to get some courage. I want to challenge again. Looking back on those days, the meals of America were the best memories for me. Smart person should go there, as they are really great! We can get 'weight' — having various meanings.

Yutaro Takahashi

First, I was surprised that everything in America were so big in their scale. The servings of the food was huge. The taste was too strong to eat everyday. Second, the days I spent in UIS were very fresh. There were many interesting things there. I was happy to be able to learn in the USA.

Kosuke Kawauchi

I'm glad to go to America, because I could learn American culture and I found that it is important to tell my feelings. If you go to America, you will be able to find something important to you.

Hiroka Suzuki

At first, I was worried if I could spoke English well. But I found many other ways to convey my thoughts such as using facial expressions or gestures. So if there are people who are weak in English and give up going to America, I think that you should give it a try!

Shun Sunaga

I was able to enlarge my world during this training in America. For people who are interested, I encourage you to apply for the training next year.

Natsuki Dejima

I studied many things during this overseas training. For example, how to use practical English, the methods of full-scale U.S. experiments, etc. I think that it is a very important experience to be able to do such a thing in my life in the United States.

Torii

We spent very precious and memorable time in US! I worked as a leader of this group who joined this science study abroad programs. It was so difficult to communicate with American people in English, which made us very tired, but we really enjoyed spending time in US. An impressive occurrence on first day in Chicago was to take a picture with American. Then I felt the American warmth and just US! The scientists who work at UIS and Emiquon were kind to us so we could do the experiments and presentations pleasantly. All scientists were humorous and great people. We thank them from the bottom of our heart for their kindness. Finally, we experienced valuable time in US so I would like first grade students to join this program!!

Shuya Minowada