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The manager's destination

# "Decarbonized agriculture" from Sunshine Red

This fantastic scene began in the vineyard of the prefectural fruit tree test station

This is one of the photos of the demonstration experiment one night.

Storing electricity with next-generation solar cells and illuminating sunshine red with blue LEDs

In an experiment to improve the color, the story is not limited to grapes.

Yamanashi Prefecture, which runs at the top with green hydrogen, is proud of the fruit kingdom Yamanashi in its heart.

He set out to become the first runner in "carbon-free agriculture"



## Fruit Tree Proving Station, Two Challenges

About 30 minutes by car from Kofu Station, the wind blows through the prefectural fruit tree test station (Yamanashi City) on a hill, and the heat is relieved.

As you approach one of them, you will find a light green sheet on a semicircular rain shield that covers the grape trellis.

This sheet is a next-generation solar cell called "organic thin-film solar cell". It was jointly developed by the manufacturer with the public Suwa Tokyo University of Science (Chino City, Nagano Prefecture), and it allows light to pass through, is thin, light, and bends, making it easy to install anywhere. A demonstration experiment using this method started in July.

Can we do something about using these solar cells to realize a decarbonized society from the agricultural field? In response to the proposal from the Prefectural Department of Agriculture, the answer given by researcher Satoshi Enya of the Fruit Tree Experiment Station was "Sunshine Red". "If we use LEDs for grapes, which are not just about generating electricity, but also about light, we will attract attention, and I thought it would be interesting if carbon-free agriculture spread as a result."

This is an experiment in which LED lights are used to generate electricity during the day, and the stored electricity is used to shine LED lights at night, and the light is shined from the underside of the grapes.

To further enhance the color of the sunshine red, which turns red with light, light is also applied at night. In order to see the effect on sweetness and size, the conditions are changed in the same field.

The decarbonization of agriculture dates back five years. In 2020, we became the first local government in Japan to participate in the "4 Permill Initiative," which aims to reduce the increase in atmospheric CO<sub>2</sub> to virtually zero by increasing the amount of carbon in the soil by 0.4% per year. In 21, the prefecture also established a system to certify products that

contribute to the reduction of CO<sub>2</sub> in the atmosphere, such as using pruned branches of fruit trees as charcoal and burying them in the soil.

Solar cells are not the only attempt at the fruit tree proving ground. From February next year, we will also begin a demonstration test of a "hydrogen heating house" that heats the inside of the house with green hydrogen made at the hydrogen plant in Mt. Komekura (Kofu City). General house heaters use heavy oil. Instead, we use a "hydrogen warmer" fueled by green hydrogen, which does not emit CO<sub>2</sub> during combustion, to grow grapes.

Yamanashi Prefecture is a leader in "green hydrogen" that uses renewable energy (renewable energy) in hydrogen production. The "hydrogen warmer" developed together with Katsura Seiki Manufacturing Co., Ltd. (Headquarters: Yokohama City, Kanagawa Prefecture), which has a factory in Hokuto City, is the first attempt in Japan. Kyoko Watauchi, a research manager at the Fruit Tree Experiment Station, said, "We are also excited about the challenge of an organic thin-film solar cell and a hydrogen warmer that has never been seen before."

I think you can understand this feeling of excitement if you look at the illustration above.

If carbon-free electricity can be produced on farmland, cars and farm equipment will also be free of heavy oil and gasoline. Serious animal damage and theft can also be countered with renewable energy such as electric fences and cameras. In the future, the surplus electricity will be sent to a hydrogen factory to produce green hydrogen, which will heat the house. Such a cycle is also born.

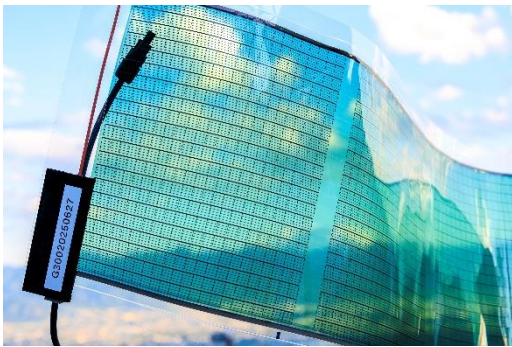
Of course, there are challenges. In the first place, organic thin-film solar cells are more expensive than solar panels, and it is still unknown whether hydrogen warmers can maintain the same temperature as conventional products. It takes at least three years to repeat trial and error and obtain the results of the demonstration test.

Koki Watanabe, an extension instructor at the Agricultural Technology Division, says, "Carbon-free agriculture will not move forward unless the prefecture takes the initiative to tackle technically difficult fields. Yamanashi is also emerging as a leading player in carbon-free agriculture.

## What is carbon-free farming?

As a countermeasure against global warming in the agricultural sector, we are working to reduce greenhouse gas emissions from production activities to zero. Yamanashi aims to become self-sufficient in energy by utilizing resources such as green hydrogen and renewable energy, which are Yamanashi's strengths. It is also expected that farmers' incomes will increase by reducing costs and increasing the added value of products.

(Photo) This is an organic thin-film photovoltaic cell. Light green in color, bent



(Photo) Sunshine Red field at the Prefectural Fruit Tree Experiment Station. Organic thin-film solar cells are installed on top of the rain shelter



(Photo) Sunshine red that has begun to turn red. Organic thin-film solar cells store electricity and shine LED lights from below at night



## Prefectural government news

### PR of prefectural fruits

#### Top sales of peaches at Toyosu Market

The prefecture and the Prefectural Council for Measures to Strengthen the Sales of Agricultural and Livestock Products (Chairman Kazuo Koike) held the first top sale of prefectural peaches at the Tokyo Central Wholesale Market and Toyosu Market (Tokyo) on July 1. Governor Nagasaki, Chairman Koike, and Yamanashi Fruit Lady handed over peaches, which are about to reach their peak of shipping, to market participants.

The governor of Nagasaki promoted the appeal of prefectural fruits, saying, "I think that prefectural peaches are the number one not only in terms of production but also in terms of content, and I hope that peaches, which can be said to be works of art created by the craftsmanship of producers, will be delivered to many consumers and will feel happy when they eat them."

Top sales are held every year in conjunction with the season of fruit season, in collaboration between the JA Group in the prefecture and the council organized by the prefecture. The prefecture will continue to actively disseminate the appeal of agricultural, livestock and fishery products produced in the prefecture and improve brand value.



## Human Resource Development

### Discovering the Artist of the Future

#### "Kaisin-no-Ichigeki"

This summer, the prefecture collaborated with Tama Art University (Setagaya-ku, Tokyo) to implement the "Kaisin-no-Ichigeki (Art and Culture Field)" project for children who are interested in art and culture.

Approximately 40 children in grades 4 to 3 of junior high school participated in this initiative, which aims to discover and nurture human resources who can play an active role both domestically and internationally, and visited the university's Hachioji Campus in July to experience workshops and other activities.

In August, a workshop was held at the Yamanashi Design Center (New Building for Disaster Prevention), where elementary school students learned expressiveness on the theme of "paintings convey emotions and thoughts and evoke sympathy from viewers," while junior high school students deepened their learning about design by using familiar materials to give shape to their feelings and thoughts.

The prefecture hopes that through these projects, artists will be born who will spread their wings around the world.



## **This month's topics**

### **• Notice of cooperation in the census**

The census is conducted once every five years and is an important statistical survey that covers all people and households living in Japan. From late September, surveyors will visit your home and distribute survey documents. Please answer easily and conveniently on the Internet from your smartphone or computer (mail is also possible).

Contact: Statistics and Survey Division

TEL 055-223-1343/FAX 055-223-1347

### **• "Miscellaneous Exhibition" around the city and art of Kofu 〈Notice〉**

Art works created by artists with disabilities from inside and outside the prefecture will be exhibited in galleries and shops. Why don't you touch art while walking around the city?

► Event period October 11th (Sat) ~ 20th (Mon) Exhibition ► hall Kofu city center 6 venues ► Admission free

Contact: Welfare Division for Persons with Disabilities

TEL 055-223-1461/FAX 055-223-1485

### **• Recruitment of students for the new academic year**

Prefectural University

Comprehensive Selection (Faculty of International Policy, Faculty of Human Welfare)

► Application Period: September 10 (Wed) - 19 (Fri) Examination ► Date: October 18 (Sat)

Contact: TEL 055-253-8901

College of Agriculture and Forestry

Recommended Entrance Examination

► Application Period: September 11 (Thu) ~ 24 (Wed)

► Exam date: Thursday, October 9



Contact: Nagasaka Campus (Department of Fruit Trees, Department of Horticulture) TEL 0551-32-2269

Fujikawa Campus (Department of Forestry) TEL 0556-42-7080

### Industrial Technology Junior College

Recommended Entrance Examination

▶ Application Period: September 3 (Wed) ~ 26 (Fri) Examination ▶ Date: October 8 (Wed)

Contact: TEL 0553-32-5201

### Institute of Gemology and Jewelry Art

School recommendation type selection (open recruitment system)

▶ Application Period: September 8 (Mon) - October 1 (Wed) Examination ▶ Date: October 11 (Sat)

Contact: TEL 055-232-6671

### Kyonan Advanced Technical College

First semester exam (recommended, general)

▶ Application Period: September 19 (Fri) - October 10 (Fri) Examination ▶ Date: October 24 (Fri)

Contact: TEL 0556-22-3171

### • Be careful of accidents during farm work

October is "Agricultural Work Safety Promotion Month". Accidents have occurred while using tractors and elevators. Keep in mind "Don't rush, don't rush, be careful!" and try to ensure safety.

Contact: Agricultural Technology Division TEL 055-223-1616 / FAX 055-223-1622

### • Don't hold it alone

September 10-16 is Suicide Prevention Week. If you are worried, call us first.

Mental Health Consultation Unified Dial TEL 0570-064-556



Open all year round (except weekdays noon ~ 1 pm)

Contact: Health Promotion Division TEL 055-223-1495 / FAX 055-223-1499

• **Prefectural school practical assistant (science, agriculture, industry)** •

**Dormitory instructor recruitment (recruitment)**

▶ Reception period - September 10 (Wed) Selection ▶ inspection date October 4 (Sat) and 5 (Sun) ▶ Distribution location of implementation guidelines Posted on the prefectural website or High School Education Division ▶ Application method After registering as a user on "Yamanashi Rashinet", enter and apply for an application form, etc.

Contact: High School Education Division TEL 055-223-1758 / FAX 055-223-1768

• **World Agricultural Heritage Festival**

We will hold an event to let many people know the charm of the Kyoto Region World Agricultural Heritage Site.

▶ Date and time September 7 (Sun) 10 a.m. ~ 8 ▶ p.m. Venue: Fuefukigawa Fruit Park (Yamanashi City) ▶ Contents We are accepting donations for event expenses such as panel exhibitions, quiz rallies, stage events, marches, and bubble night shows. We look forward to your support.

\*Advance reservations are required for some events.

Contact: Kyoto Regional World Agricultural Heritage Promotion Council Secretariat (Yamanashi City Hall Agriculture and Forestry Division)

TEL 0553-20-1379

## Taro Yabe and Takasugi 'Jay' Jiro go here and there Yamanashi

〈Yamanashi connoisseurs competing for one or two with Yoshimoto Kogyo's talent〉

Whether you are a writer or a working alien, "pilgrimage to the Holy Land" is hot anytime and anywhere!

Taro Yabe(Manga artist, comedian)

Born in Higashimurayama City, Tokyo. In 2017, he made his debut as a manga artist with "The Landlord and Me", which became a bestseller. Appeared in the 2024 taiga drama "To the Shining Kimi" as Otomaru. His latest book is "Self-Love".

Jiro Takasugi 'Jay' (Sports DJ, Radio DJ)

Born in Katano City, Osaka Prefecture. The DJ is prepared in the United States. He is also a special lecturer at Yamanashi Prefectural University. Every Saturday from 11 a.m., he appears live on the program on FM stations in Yamanashi Prefecture. There are also SUP schools in the Fuji Five Lakes.

〈Taro〉 The pilgrimage to the holy place in the drama "Hot Spot" is amazing.

〈Jiro〉 A fireworks display was held at Lake Shoji in August, and it was the first time in six years. Because there is a "Lake Hotel Asanoko" where the main character works.

〈Taro〉 I saw a "cultural festival" being held in the schoolyard of the school (former Shimobe Elementary and Junior High School) that appeared in the anime "Yuru Camp △".

〈Jiro〉 The holy place has a high economic effect, so the whole town will put more effort into it.

〈Taro〉 I shot a movie near Kofu Station before.

〈Jiro〉 Benten Street?

〈Taro〉 That's what it feels like. I played the role of a yakuza, so I don't think I contributed to the economy (laughs).

- 〈Jiro〉 Kofu still has old buildings in the center of the city, and it is easy to make into a picture. The artist of "Yuru Camp△" is drawing "MONO" set in Kofu, and it seems that expectations for a new sacred place are rising.
- 〈Taro〉 Being able to take a day trip from Tokyo is also good for shooting.
- 〈Jiro〉 Speaking of which, a junior writer at the company.
- 〈Taro〉 Matayoshi (Naoki)-kun.
- 〈Jiro〉 Yes, he liked Osamu Dazai and told me that he went all the way to the Tenka Chaya.
- 〈Taro〉 Evening primrose looks good on Fuji. Dazai's holy place, isn't it?
- 〈Jiro〉 As expected of Mr. Yabe (laughs). "Spark" for which Matayoshi won the Akutagawa Prize, the movie should have been shot at Yamanashi Eiwa University in Kofu. Dazai connection, are you happy?
- 〈Taro〉 Matayoshi-kun, I don't think you noticed it (laughs).
- 〈Jiro〉 Yes, how about Yabe-sensei making a sacred place somewhere in the prefecture with manga?
- 〈Taro〉 From the beginning, he draws with the aim of aiming for a holy place. It's a reversal of the idea (laughs).
- 〈Jiro〉 From now on, the stage will be Shosenkyo with beautiful autumn leaves. From the place where the crystal was mined.
- 〈Taro〉 Defeat the demon with crystal.
- 〈Jiro〉 The demon is Mt. Iwadono, it's a little far away (laughs). I'm sure the prefecture will fully cooperate. At this time, I will ask for a budget (laughs).
- 〈Taro〉 It's sure to be a big hit. I'll start drawing today!

## The Favorite Places of the Curious Section Chief

This time I will introduce you to

Tanzawa Co., Ltd. Sales Department Manager

Katsuki Sano



## Spicy while sweating

We have about 40 stores that handle natural stone in tourist destinations nationwide. I am also involved in store development as a sales department, and I am currently working on the town development business using that experience. My favorite restaurant is "Chinese Soba Tokueiken". It is located in "Koshu Yumekoji", where we are engaged in tenant attraction and operation. I was close with the owner even before the store opened, and I tasted it several times, and every time I told him my impressions, it became more and more delicious. We recommend adding rice to the "spicy Japanese-style soy sauce ramen" with a tangy spiciness that whets your appetite. Even on a hot day, I sweat lightly and slurp the noodles in a crazy way, and I end up drinking up the soup.

In April of this year, "Koedo Kofu Hanakoji" was opened on the south side of Kofu Castle. We will continue to do our best to liven up the city of Kofu.

### Chinese soba Tokueiken

〒400-0031 Yamanashi Kofu City Marunouchi 1-1-25 Koshu Yumekoji Kurumu 2nd floor  
055-298-6543

Business hours: 11:00~15:00 (L.O. 14:30) / 17:30~21:00 (L.O. 20:30)

Closed: Mondays, Tuesdays, and other irregular holidays



## Reader Gift

Answer the questionnaire and apply!

Please answer the following ❶~❺ questionnaire.

Please apply using the "Application Form".

❶ Postal code ❷ Address ❸ Name ❹ Age ❺ Phone number

\*Application is limited to one person per person.

Q: What was the most interesting content in this issue and why?

\*We may introduce some of the opinions we receive.

Click here for the application form

<https://forms.office.com/r/KnhxgWGwx5>

Deadline: September 30 (Tue) Postmark valid on the day

We will replace the announcement of the winner with the shipment of the product.

Personal information may be used for shipping products and notifications from the prefecture.

100g dried sweet potatoes sold directly from the factory 5 people by lottery

Product provided by: Noto factory direct sales office

〒406-0028 5-5-5 Ishiwacho Ekimae, Fuefuki City, Yamanashi Prefecture / 9:30~17:00 until the end of September (subject to change depending on the season) / Open daily until the end of September / 080-4198-2362



The contact monthly can also be read in English and Chinese.

FUREAI MONTHLY is also available in English and Chinese.

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It is scheduled to be folded.