

# Interview with street cleaners

## 1. Interview Questions

Written by: Zeng Anke

### 1. Opening remarks:

- Hello gentleman / lady, we are a group of high school students, we want to improve the gum cleaning method on the road; then we need to ask you about some background as a professional. Could you please to answer our questions?

### 2. Specific Questions:

- 1. Have you ever seen this spot when you were cleaning it? A black, protruding piece. (show photos)
- 2. Do these spots usually see more on the road? How many times do you encounter it a day?
- 3. Have you ever stepped on or seen someone step on the gum that hasn't been completely dried out, or even glued to your shoes?
- 4. Do you think this gum stain has a great impact on the city appearance?
- 5. Do you usually clean up these stains?
- -> If so: Is it more difficult to clean up ?
- -> If otherwise: is it because of many and difficult to sweep?
- 6. So what way do you think you can clean it up? Is it convenient to demonstrate it for us? (Take video record)
- 7. Is this method often used in the usual work? Where is this method in trouble?
- 8. Do you think there are any new ways to solve this stain?
- 9. If we now develop a new cleaner that can degrade gum, and even we're considering a new gum that doesn't leave traces on the ground after air drying. What other advantages do you think he needs before you are want to use or recommend others? Try to guide some expectations, for example, the price is not too expensive or more easy to carry.

### 3. Conclusion:

- Our questions are finished, thanks a lot!

## 2. Interviews Record:

written by Alice ( Yusi Luo )

- We had the interview with 3 ladies. One of them mainly does housekeeping, also has experience working outdoors. The rest of two working outdoors, were interviewed next door to the central book city.

Q1:, Have you ever seen this spots when you were cleaning? Black, protruding piece. (show photos)

- Yes.

Q2: Do these spots usually see more on the road? How many times do you encounter it a day?

- See them about 6-10 times a day (outdoor), seldom see them indoor.

Q3: Have you ever stepped on or seen anyone step on the gum that hasn't been completely dried out, or even stuck to the shoes?

- Seldom, but it will be hard to clean it once stepped it on shoes.

Q4: Do you think this gum stain has a great impact on the city appearance?

- A little of them will not affect, but if there are too much, then it will.

Q5: So, do you usually clean up these stains?

- -> If so: Is it more difficult to clean up ?

- -> If otherwise: is it because of many and difficult to sweep?

- Yes, the scraper is convenient, but like now hot days to squat down bit by bit scratch is very tired. If the amount is large, it takes a lot of time.

Q6: What do you think is the best way to clean it up? Is it convenient to demonstrate it to us? (Video recording)

- Scraper scraping ( got video record )

Q7: Is this method often used in daily work? What's the trouble with this approach?

-It's very common because it's almost the only way. Trouble is to get down on your knees, if more, for a long time. It will cause leg acid, and it will hurt their back and legs for doing this for a long time.

Q8: Do you think there is any new way to solve this stain?

-Something like dishwashing liquid

Q9: Now if we develop a new detergent, it can degrade chewing gum, and we even consider launching a new chewing gum that will not leave traces on the ground after air drying, what other advantages do you think it needs before you are willing to use and recommend to others ?

-1. Multifunctional, but the function of gum must be good. It is best not to use water, like insecticide or spray, take a spray did not drop, do not have to scrape extra.

-2. It would be better to design a chewing gum that can degrade itself, which fundamentally solves the problem. However, there are safety issues, and mainstream chewing gum brands are already used to eating, so they may not be willing to buy chewing gum designed by a group of high school students.

- 3. It should be cheap, small enough to hang on a broom or put in your pocket, do not need to wait after spray (reaction time is not a big problem, after spraying, they can spray somewhere else or do something else)

### **3. Summary:**

1. Summarise about background and the expectation

written by Zeng Anke

About the background

1. Cleaning chewing gum on the ground is their daily job.

2. Spitting gum everywhere will affect the beauty of streets and scenic spots, and affect tourists' experience.

3. Current cleaning methods are time-consuming and laborious. There is a great need for improved

cleaning methods.

About the final product

1.easy to learn how to use

2.Finish cleaning just after spray without other operations

3.Attention to the environment factor when use in real time , for example the temperature and humidity

2.Summarize the part of the interview content that is beneficial to and can promote the project

written by Alice ( Yusi Luo )

- Determine whether there are many existing gum stains?
- Whether there are any difficult pain points to clear them?
- Are there effective ways to respond right now?
- What are the disadvantages of the ways now
- If we can develop new reagents, what characteristics will this reagent have to make you prefer to use them?

-1. There are a lot of Gum stains, which will affect the city appearance

-2. Cleaners' personal ideas are different, some think that the scraper cleaning method is actually very convenient.But it would be better if there were more convenient methods

-3. A scraper is tiring to squat down to scrape, especially when the amount of gum is very large.

-4. Existing methods are relatively tired and take a longer time

-5. The reagent itself needs to be efficient, and it is best to spray it, without adding extra things.At the same time, it is better to clean up other stains by the way.The container is light and small to adjust how much spray.