

231 Since the foundation of HZB in 2009, 231 students have taken part in the annual international summer student program. They spend eight weeks doing research on their own scientific projects - and they travel from very far away: from Israel, Colombia, Afghanistan, Jordan, Russia, Egypt, Italy, Bulgaria, Latvia, Portugal, Turkey...



By Ana Sofia Freire Anselmo from Portugal



"I am currently at the Director's Office working in International Matters. Before that I was part of the User Coordination team, managing access to our facilities of researchers from all over the world."



Peixinhos da Horta

Starters

Fake fried fish

Ingredients for 4 persons 500 g flat green beans

2 eggs 100 ml water 150 g flour salt pepper Oil for deep frying 1 onion 1 clove of garlic 1 bay leaf olive oil

Arroz de Tomate (tomato rice)

2-3 peeled tomatoes 200 g rice

"Translated literally, it means 'little fish from the Bom apetite! garden'. It's great as a snack served with a dip, for example aioli. It could also be a light meal if you pair it with Arroz de Tomate."

Wash the green beans and cut off the ends. If too long, cut to ca. 10 to 15 cm-long pieces. Boil in salted water for up to 5 minutes (they should still be firm and slightly undercooked). Make a thick batter with the eggs, water and flour, and season with salt and pepper. Coat each green bean piece in the batter and deep fry in hot oil until golden. Drain the excess oil over a net or grid.

For the tomato rice: Fry a finely chopped onion and a bay leaf in olive oil. When the onion is translucid, add a chopped garlic clove. Add peeled and diced tomatoes. Let it cook for a bit. Add the rice (a starchy sort) and stir. Then add water (3 times the rice volume), season with salt and let it cook. Remove from the heat while there is still some liquid left.



"With a prize from the Alexander von Humboldt Foundation, I spent a year researching organic polymer compounds at the HZB. With the so-called self-healing hydrogels, cuts and cracks close by themselves. I want to find out which mechanism is behind that."



By Oguz Okay from Turkey



Imam Bayildi

Starters

Stuffed eggplants

ildi cold with flat bread.

Ingredients for 6 persons

3 eggplants 2 onions 2 tomatoes 1 bunch parsley garlic *(optional)* green pepper sea salt olive oil

cool a little. Add two finely chopped tomatoes,
the chopped garlic and parsley, season with
green pepper and mix well.
Take the eggplants, hollow them out with a spoon
and fill them with the tomato/onion mixture.
Steam the eggplants in a pan with a little olive

Halve the eggplants, sprinkle with sea salt and leave to marinate for 15 minutes. In the mean-

time, prepare the filling: Chop the vegetable oni-

ons very finely, salt them, fry them and let them

Afiyet olsun!

"The recipe name means 'the imam passed out.' Legend has it that the Imam enjoyed the dish so much that he fainted."

oil and water until they are soft, remove from the

heat and let them cool. Please serve Imam Bay-

By Anna Manzoni from Luxembourg



"I work on a new class of metallic materials, called high entropy alloys. They stand out by the fact that they do not have a base element. The alloy family I work with will hopefully used in turbine applications one day."





Feierstengszalot

Starters

Fire stone salad

Ingredients for 8 persons

500 g cold cooked beef (roast beef or a fine boiled beef like tafelspitz) 2 onions 2 eggs 1 small dill pickle **Sauce** 4-6 tbsp oil 1 tbsp brown mustard fresh parsley fresh chives salt pepper **Decoration**

> 1 egg capers tomatoes

Remove fat and gristle from the cooked beef and cut it into cubes about one centimetre in size. Chop an onion. Boil the eggs hard, cut 2 of them into slices and then cut the slices into strips. Cut the dill cucumber into slices and then into strips. Mix the beef with the onions, cucumber and the 2 hard-boiled eggs.

Mix oil, mustard, salt and pepper to a salad dressing. Add the finely chopped parsley and chives - lots of them: don't stint! Toss them together with the beef salad. Let it rest for about 1 hour. Serve the salad - garnished with parsley and chives, the third egg (quartered), tomatoes and capers.

Gudden Appetit!

8

By Rowshanak Irani from Iran



"I am investigating absorber and catalyst materials for photoelectrodes used in the production of solar fuels. I am trying to

determine why photoelectrodes become more efficient after the application of catalysts."





Ingredients for 6 persons

oil

4 eggplants 1 large onion 4 cloves garlic 1/2 tsp turmeric 1/2 tsp black pepper 1/4 cup water 3/4 cup liquid kashk (Iranian yogurt) 1 tsp saffron 2 tbsp dried mint 1/2 cup chopped walnuts



Starters

Kashke Bademjan

"Kashke Bademjan is a very tasty vegetarian appetizer. It is usually served with bread."

First fry the peeled eggplants and the chopped onion in separate pans. When both are fried well, mix them and add turmeric and black pepper. Stir and mix well.

Add ¹/₄ cup of water, then cover and cook for about fifteen minutes. Mash the mixture well. Then add kashk, half of the dried mint, the chopped walnuts and the saffron, stir well and cook all of it for about 10 minutes over medium heat. Sautee the chopped garlic and remaining dried mint separately to serve on top of the Kashke Bademjan along with some extra kashk.

Nooshe Jan!



"I come from Seoul and work as a theoretical physicist. I develop models for polymer networks in order to transport dissolved substances and proteins. This would make it possible in future to control the release of active substances in cells."



By Won Kyu Kim from South Korea



오이 무침 Oi Muchim

Korean cucumber salad

Starters

Ingredients for 4 persons

1 cucumber 1½ tbsp salt 1 tsp sugar 1 tbsp vinegar 1 clove of garlic, chopped ½ tsp ground black pepper 2 tsp sesame oil 2 tsp sesame seeds 1 tsp chilli flakes (optional) 1 tbsp Korean soy sauce Cut the cucumber into thin slices and place in a large bowl. Add salt and wait 5 to 10 minutes. Drain the cucumber with cold water. Add the other ingredients and mix well.



77 PhD students from abroad conduct research at the HZB and qualify for a career within and outside the academic world. This means that more than half of the 151 doctoral students come from abroad.



By Sneha Choudhury from India

"I am investigating nanodiamonds. These materials can become interesting as inexpensive catalysts. With sunlight nanodiamonds can be catalytically activated and produce useful fuels from carbon dioxide and water."







Chingri Machher Malaikari

Prawn curry with coconut milk

Ingredients for 4 persons

1 kg large prawns 2 onions - 5 tbsp of onion paste 1 clove of garlic 1 tsp ginger 5-6 green chillies or 2-3 thin red chillies 400 ml coconut milk 130 ml water 4 small bay leaves 4 pieces of cardamom 6 cloves 2 small sticks cinnamon red chilli powder turmeric powder sugar salt oil

Enjoy your meal!

Clean the prawns and marinate with turmeric and salt for 30 minutes. Grind the onions to a paste. Heat oil in a deep frying pan and fry the prawns lightly until golden brown, do not deepfry. Remove the prawns and add the chopped garlic to the oil. Remove the garlic when the oil starts getting the fragrance of the same.

Add bay leaves. Coarsely chop the cardamom, cloves and cinnamon with a pestle and add to the oil. Add the onion paste when the spices start to crackle in the oil.

Fry the paste with some sugar until it is brown or the oil separates from the paste. Add the ginger paste and stir the spice mix. Add coconut milk and water (approx. ¹/₃ of the tin) and mix well. Then add red chilli powder, very little turmeric powder and salt. Then add the green or red chillis and let the curry simmer for about 25 to 30 minutes. When the oil surfaces from the gravy, add the prawns and cook on low heat for a while till the curry gets a creamy consistency. Serve

the prawn curry with basmati rice.

By İbrahim Şimşek from Turkey



"My research topic is about inorganic perovskites as absorber materials for solar cells. Recently, I work on chalcogenide perovskites."







Biber dolması

Rice stuffed bell peppers

is evaporated.

Ingredients for 5 persons

10 bell peppers 200 g rice 200 g ground meat (beef) 2 onions 3 tomatoes 2 tbsp tomato paste 1¹/₂ cup olive oil 1¹/₂ bunch parsley 1 tsp chili powder 1 tsp pepper 1¹/₂ tsp cumin 1¹/₂ tsp salt

Afiyet olsun!

Take out the tops of the peppers and remove the seeds. In a saucepan, place the olive oil and the finely chopped onions. Fry lightly. Add the ground meat. When the meat is rare cooked, add two peeled and diced tomatoes and tomato paste, fry them for another 3 minutes. Add the rice and cook for 3 minutes. Then add salt, chop-

Fill the peppers with the mixture. Do not stuff too tightly as the rice will swell. Place a slice of tomato on top of each pepper and place in a saucepan. Fill half way up with water and tomato paste. Close the lid and cook at medium heat for 25-30 minutes.

ped parsley and cumin. Let simmer until all liquid

Serve with yoghurt or Cacık (Turkish tzatziki).

"This classic recipe can also be made vegan: Simply double the rice and instead of minced meat, use $\frac{1}{2}$ cup of raisins, a pinch of cinnamon and $\frac{1}{2}$ cup of pine nuts."

Von Paul Goslawski aus Polen

"I am an accelerator physicist and want to optimize the synchrotron radiation source for our users. We are working on converting BESSY II into a variable pulse length storage ring (BESSY VSR). To do this, we have to manipulate the electron bunches flying in BESSY II and test new operating modes. The concepts developed can be building blocks for a BESSY II follow-up source."





Pierogi ruskie

Dumplings with potato and cottage cheese stuffing

Ingredients for 6 persons

Doughin salted w350 g flourcottage chi1 eggand roast130 ml waterwith ham)FillingSeason with600 g potatoescontain and250 g cottage cheeseFor the do1 onionand someServing without circles1 tbsp butterfilling in th200 ml sour creamdough to asaltthe edges.pepperBoil the duonce they

For the filling: Peel the potatoes and boil them in salted water. Mash hot potatoes and mix with cottage cheese. Chop the onion into small pieces and roast until golden brown (can also be done with ham) and stir into the potato quark mixture. Season with salt and pepper. The filling must not contain any potato or quark lumps. For the dough: Knead flour and egg with water and some salt. Roll out the dough thinly and cut out circles with a large glass. Put a spoonful of filling in the middle of the dough circle. Fold the dough to a half moon and carefully press down

Boil the dumplings in water. Stir carefully and once they swim on the surface let them cook for 2-3 minutes.

Serve with hot butter and sour cream aside.

Smacznego!

By Margarita Russina from Kazakhstan



neutron time of flight spectroscopy group at HZB which is operating the neutron spectrometer NEAT. Our group is investigating confinement processes of ions, liquids and gasses in porous materials."





"This is one of my favorite dishes which comes from the country I was born in - Kazakhstan -, and is particularly suitable for cold winter days. Besh means 'five' and 'barmak' means fingers. Since Kasachian were mostly nomadic in old times, they eat this dish by hands and use all of their fingers. Typically it is cooked with either horse meat or lamb, but in our family we cooked it with chicken. The dish is served with a bowl of the broth on the side called sorpa."

Бешбармак

Beshbarmak · "Five fingers"

Ingredients for 6 persons 1 kg lamb or one good quality fat chicken 1 large onion 1 bay leaf 1 piment ground pepper salt pepper some parsley and chives For the noodles (use alternatively lasagna noodles) 1 eggs 1/2 cup water

1/2 tsp salt 300 g plain flour

Приятного аппетита

Cook the meat with the onion, bay leaf, salt and one piment or pepper corn with an amount of water covering the meat. When boiling, remove the foam. Cover the pan and let it cook until the meat is tender and falling off the bone (approx. 1 hour for chicken, 2 hours for lamb). Meanwhile, prepare noodle dough. In a bowl mix the sifted flour, the whisked egg, salt and pour water until a dough is formed. It should be not too sticky, otherwise add more flour. Wrap in plastic wrap and leave for 20-30 minutes. Afterwards sprinkle the work top with sifted flour, divide your dough into a few small balls and roll each piece of pastry into a fairly thin layer. Cut into pieces not too small and leave it dry a little bit. Cut the onion into rings. Take the top fat layer of the broth and cook the onions briefly in the fluid with a lot of freshly grinded pepper. Remove the meat from the broth and separate into parts as you wish.

Bring the stock to a boil and cook the noodles in batches in the same stock for about 7-8 minutes. Sieve them out and put on at the big plate, put the pieces of meat on the top and pour over the broth cooked with onions. Sprinkle some chives and parsley to garnish over the top. Strain the broth and serve in bowls as sorpa alongside the platter of Beshbarmak.

By Karel Prokes from the Czech Republic

"After I was many years responsible for an instrument at the BER II I prepare for 'post-neutron times'. I also develop research prospectives for our unique 26-T hybrid magnet after the reactor shotdown."





"The preparation of this classic Czech dish takes about 18–24 hours. But it is worth it. Bread dumplings (houskový knedlík) are served with the meat – they belong to the national culinary heritage. However, they are not easy to make, which is why they can also be bought. A portion traditionally consists of four slices."

Svíčková na Smetaně

Beef sirloin in cream sauce

Ingredients for 5 persons

750 g of the finest beef sirloin 150 g carrots 150 g celery 75 g parsley 1 large onion 50 g bacon chopped into small wedges 150 g butter vinegar 5 peppercorns 3 allspice berries 3 bay leaves

a pinch of thyme, lemon juice, sugar oil 100 g rough mustard *(optional)*

2 tbsp plain flour 250 ml cream milk lemon slices cranberry sauce Make small cuts in the meat with a knife and fill with bacon. Sprinkle with salt and pepper. Place the meat in a glass or ceramic roaster. Surround with the chopped vegetables. Sprinkle with thyme, pimento and parsley. Add vinegar, bay leaves and two tablespoons of oil. If necessary, add some water or vinegar to cover the meat. Put in the fridge for 18 to 24 hours. Turn the meat occasionally.

The next day: remove the fillet from the marinade and pat dry. Heat 2 tablespoons of oil in a pan. Brown the meat everywhere and take it out again.

Pour some water into the pan and bring to the boil. Pour the juice as a marinade over the roast. Put butter (or lard) on the meat. Fry together with the vegetables for 1 ½ hours at 175 °C in the oven. Then drain the vegetables and liquid and puree. Meanwhile keep the meat in a warm oven (below 50 degrees).Heat the vegetable puree in a saucepan. Season with salt and pepper - optionally with mustard. Add lemon juice and sugar. If necessary, dilute with some water or beef stock. Shortly before serving, stir in sour cream (do not boil). Cut the meat into slices and serve with Czech dumplings and the cream sauce. Traditionally you put some cranberry sauce, a slice of lemon and whipped cream on the meat.

Dobrou chuť !



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By Félix Duarte from Mexico



"Green energy is definitely something we should do. Contributing a little to this is a good goal in life. I am in charge of

the HIKE beamline, on which deeper layers in solar cells, batteries or systems for solar water splitting can be investigated with the X-ray light from BESSY II."





, Main course

Chicken Fajitas

Mexican chicken and vegetable pan

Ingredients for 4 persons

600 g chicken breast 4 tbsp olive oil 3 cloves of garlic 1 medium-sized tomato ½ of an onion 3 medium-sized bell peppers (a red-, yellow- and green-colored set) chicken broth powder salt pepper Heat oil in a pan and fry garlic until it gets slightly browned. Cut chicken in 2 cm stripes. Add salt, pepper and chicken broth powder on top. Fry chicken in high heat for approximately 5 minutes, turning the chicken when necessary. Cover pan and leave it cooking in low heat for another 5 minutes.

Remove lid and introduce the sliced onions. Stir and let it cook for 1 minute.

Then, add bell peppers – cut into stripes – and diced tomato into the mix, while stirring constantly. Cook until the peppers get the desired level of tenderness. Serve hot.

¡Buen provecho!

By Gauri Mangalgiri from India

"With my research I would like to contribute to a better light management in solar cells. To this end, I simulate nanostructures on the computer in order to optimize the incidence of light. Then I try out the best structures in the laboratory."





Spicy Yoghurt Chicken

with garlic and ginger

Ingredients for 10 persons

10 pieces of chicken breast

1 tbsp garlic and ginger paste

1 tbsp chilli powder, mustard

powder, sesame powder, cloves,

200 g yoghurt

and cardimon

salt

pepper

optional:

1 pinch of sugar

1 tbsp tomato paste 1 tbsp tamarind paste

minced mint or flavored cream

Chop chicken into moderate slices and sprinkle it with salt and pepper. Mix one tablespoon each of chilli powder, mustard powder, sesame powder, cloves, cardamon, garlic and ginger paste and whip it. Add a pinch of sugar.

Prepare 200 g of fresh yoghurt into a wide bowl. Add the spices mixture to the yoghurt and mix finely until all ingredients are mixed well. For more mix of sweet and sour, one tablespoon of tomato paste and tamarind paste can be added as preference.

Then add the sliced chicken pieces to the yoghurt mix. Let it marinate for at least two hours. Make sure that all the pieces are soaked in yoghurt. Heat oven to 250 °C for 10 minutes. Polish the baking tray with a thin layer of cooking oil and place the pieces on it. Cool down the oven to 200 °C and bake for 30 minutes. The chicken kebabs can be served with minced mint or flavored cream.

Enjoy your meal!

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By Nils Mårtensson from Sweden



"The University of Uppsala runs a lab with the HZB: the Uppsala Berlin Joint Laboratory. Together, we have developed methods for functional materials

that are not available at any other research institution. They are based on angle-resolved time-of-flight electron spectroscopy. Only at BESSY II we find light pulses with the time structure we need for research with these methods."



Main course

Raggmunk

Potato pancakes with bacon and cranberries

Ingredients for 6 persons

1 kg floury potatoes 1 egg

> 1 tbsp flour 2 tbsp water

lightly salted bacon

500 g cranberries

200 g sugar

oil

butter

pepper

salt

add salt and pepper. Heat oil and butter in a pan, pour a large tablespoon of dough per buffer into the heated pan. Fry the pancake until the crust is light brown. Then turn the pancake over and fry the other side until light brown.

First rub the potatoes - e.g. the King Edward.

Then mix an egg with flour and water. Add this

mixture to the grated potatoes. Stir the dough,

Hand to the pancake lightly salted, roasted belly meat and cold-stirred cranberries, which are mixed with the sugar until this has dissolved.

Smaklig måltid!

By Sean Berglund from the USA

"If we can use sunlight to produce solar fuels cheaply and efficiently, fossil fuels can be increasingly reduced. To this end, I am investigating complex material systems consisting of various semiconductor compounds that use sunlight to split water into hydrogen and oxygen."





Twice-Baked Potatoes

with Cheddar cheese

Ingredients for 4 persons

1/4 cup warm butter or margarine

1 cup shredded Cheddar cheese

1 tbsp chopped fresh chives

4 russet potatoes - e.g.

Russet Burbank

1/4 - 1/2 cup milk

Dash of pepper

1/4 tsp salt

(optional)

Heat oven to 190° C. Scrub potatoes, but do not peel. Poke potatoes several times with a fork. Bake 1 hour to 1 hour 15 minutes (until potatoes are tender when pierced in center with a fork). Remove potatoes from oven and let them cool. Then cut them lengthwise in half and scoop out the insides, leaving the brown skin as a shell. Mash the insides with a potato masher or electric mixer on low speed until there are not lumps. Add milk slowly and mash until potatoes are smooth. Add butter, salt and pepper; mash into potatoes until smooth. Stir in cheese and chives. Fill the potato skin shells with the mashed mixture and place on a cookie sheet. Increase oven temperature to 205 °C. Bake about 20 minutes.

Enjoy your meal!

By Rowan MacQueen from Australia

"I am working on solar cells to be able to use a larger part of the solar spectrum. With molecules introduced, it should be possible to convert red into blue light. Our research is also interesting for more efficient solar hydrogen production."





Spicy strips

vegetables with soya

Ingredients for 2-3 persons

1 large onion 2-3 cloves of garlic *(optional)* 2 red paprikas 1 head of broccoli 400 g soya strips 2-4 tsp sambal oelek 1 egg peanut oil

Cut the onion into cube, chop the garlic and cut the paprikas into long thin strips. Cut a head of broccoli into florets and cook the florets approx. 5 minutes.

Then heat the peanut oil in a deep-sided frying pan or a wok. Add the onion and half the sambal oelek, stir and don't let it burn. After a minute add the soya strips, then a minute later add the red paprika, broccoli florets and the remaining sambal oelek, keep stirring and keep the pan hot. Once cooked, turn the heat down, crack the egg into the pan and mix it together.

Serve it right away! This dish can be eaten with rice.

Enjoy your meal!

Main course

By Daniel Meza from Mexico

"I investigate various material mixtures in order to optimize the electrical contact layers in solar cells. They ensure that the electricity produced by sunlight is dissipated from the solar cell. In my spare time, I perform at science slams. I really enjoy getting others excited about science."





Quesadillas con champiñones y aguacate

Filled tortillas with mushrooms and cheese

Ingredients for 6 persons

6 tortillas/wraps 2 onions 500 g champignons 250 g cheese, e.g. Gouda 2-3 avocados jalapeños

> salt pepper butter

butter

¡Buen provecho!

Cut the champignons and onions into small pieces. Fry them in butter and add salt and pepper. Then fold the tortillas or wraps in the middle, put some cheese inside, and place them on a pan at low heat so that the cheese melts, but the tortilla does not burn. When the cheese has melted, open the tortilla, and put the fried champignons and onions inside.

Then heat the tortillas in the oven at 180 °C so that the melted cheese fills the gaps between the champignons. Heat for a couple of minutes, and then serve on a plate, open it and put avocado and jalapeño slices in it.

"To make it a real Mexican snack, put some Jalapeño chilies inside the tortillas and say 'mmh, delicioso!' after each bite."

By Andriy Ushakov from Ukraine

"I work in the team that develops superconducting cavities for BESSY-VSR. These key components are necessary to accelerate the electron bunches. After the upgrade, BESSY II will provide light pulses of variable length for the experiments. There is no other light source in the world that can do this."







вареники

Ingredients for 6 persons

250 g fresh sour cherries

1 ¹/₂ tbsp vegetable oil

1 cup flour

salt

butter

1/2 cups water

3 tbsp sugar

Wareniki with sour cherries

Prepare a dough from flour, water, oil and a pinch of salt and roll out thinly. Cut small circles out of the dough, for example with an inverted cup and a knife. Add 3 cherries and half a teaspoon of sugar to each circle. Fold the circles together (see photo) and press the edges together. Pour into boiling water and leave to stand for a few minutes. Then serve the Wareniki with melted butter.

Смачного

By Catalina Jiménez from Argentina

"I am senior scientist at the Energy Materials In-Situ Laboratory Berlin – EMIL. My current research focuses on operando synchrotron spectroscopy studies of materials for intermediate temperature Solid Oxide Fuel Cells. We want to decrease operation temperature and enhance cell performance with exsolved catalytic nanoparticles."





"Empanadas pastries simply belong to traditional Argentine cuisine. They can be found at elegant parties, as appetizers before asado or on the streets. They are easy to store in a freezer. The filling can be anything, but beef is the most common choice in Argentina."



Empanadas

Filled pastries

Ingredients for 6-8 persons

750 g minced beef meet 4 onions (approx. 750 g), chopped in small cubes 1 bunch of spring onions, rinsed and chopped 50 g raisins 50 g bacon cubes (optional) 4 tsp olive oil 1 bouillon cube 2 tsp cumin 1 tsp hot paprika (or sweet paprika) 2 boiled eggs, chopped in cubes

50 g green pitted olives, chopped 24 dough discs (available online e.g. at www.latinando.de, search for Empanadas Dough) Put the olive oil in a pan. Cook the onions, spring onions, raisins and bacon over medium heat for 5–10 minutes. Add salt and pepper. Add the minced meat, cumin, hot paprika and the bouillon. Let it cook for 20 minutes, stirring from time to time. Add eggs and olives and let cool down. Peel of the discs one at the time from the stack. Wet the borders of the discs with water. Put one disc on the palm of your hand. The wet borders should be visible to you. Put 1 ½ full tablespoon of filling in the middle. Close the

tablespoon of filling in the middle. Close the disc pressing the borders using the tips of your fingers.

Put the empanadas on a baking tray. Paint with egg yolk. Bake them for 15–20 minutes at 180 °C in circulating air or 200 °C with top-bottom heating.

¡Buen provecho



1440 guest researchers from abroad use the synchrotron radiation source BESSY II to examine their samples. They come from 28 countries.



By Catherine Dubourdieu from France



components."

"I am the head of the 'Institute for Functional Oxides for **Energy-Efficient** Information Technology'. We conduct research on functional oxide and semiconductor thin films. They are regarded as a particularly interesting class of materials for energy-efficient, cost-effective





Ingredients for 4 persons 125 g dark chocolate 4 eggs Pinch of salt



Mousse au chocolat

Chocolate mousse

Place a small pot in a larger one filled with some water. Put the chocolate - broken into pieces into the small pot, heat it up and melt it in a water bath. Stir until the chocolate is smooth. Separate the eggs. Remove the chocolate from heat and add the egg yolk while stirring strongly (egg yolk should not be boiled). Beat the egg whites with a pinch of salt until very stiff. Add one or two large spoons of the egg whites to the chocolate and stir to make it a little more liquid. Carefully fold the chocolate mixture into the remaining egg white. Leave to stand in the fridge for 3 hours.

Tips for the perfect chocolate mousse:

"You don't need sugar. There is enough sugar in the chocolate itself. The egg whites must be beaten very stiffly. Take the eggs out of the fridge $\frac{1}{2}$ hour before you start, they must not be too cold. Don't forget the pinch of salt. If liquid settles under the mousse, either the egg white was not beaten sufficiently or you waited too long before eating it."

Bon appétit!

By Fabiano Yokaichiya from Brasil

"I am instrument scientist at the neutron source BER II and responsible for the instrument E2. The topics of my research are magnetism, drug delivery systems and composite materials (e.g. cement, concrete)."





Desserts

Bolo de Fuba

Corn cake

Ingredients for 12 persons

3 tbsp butter 2 cups sugar 3 eggs ½ cup flour 2 cups finely ground corn flour 1 ½ cups natural yoghurt 1 tbsp baking powder Mix the butter with the sugar. Separate the eggs. Then add the egg yolk and mix everything together. Add the flour, finely ground corn flour, baking powder and natural yoghurt. Then carefully fold in the beaten egg whites. Grease the baking pan and fill with the dough. It is best to use a baking pan with a hole in the middle. Bake at 180 °C for about 45 minutes.



"Bolo de Fuba is one of Brazil's most delicious recipes from the interior of the country. The cake is simple but full of variations and it lives from the creativity of the Brazilians. This recipe is from my friend Margareth Franco."

Bom apetite!

By Sophie Spangenberger from France



"I am an event manager in the communication department and also supervise the communication activities for the Helmholtz Innovation Lab HySPRINT. I organize scientific workshops, conferences and fair presentations."



Desserts

Crêpes

French pancakes

Ingredients for 20 crêpes

250 g flour 5 eggs 2 sachets vanilla sugar 1 pinch of salt 1 tbsp sugar 75 ml milk 1 tbsp oil 2 tbsp rum 1 tbsp orange blossom water Put the eggs into a bowl. Then add flour, sugar, salt, baking powder and vanilla sugar and mix. Add the milk and stir well to make the dough liquid. Then add oil, rum and orange blossom water. Let the dough rest at room temperature for at least one hour.

Put a portion of dough in a greased pan and spread. Fry the first side until golden brown, then turn the crêpe in the air with one hand while holding a piece of gold in the other hand - this is what the tradition says.

Bon appétit!

"On the 2nd February, 40 days after Christmas, the French celebrate the 'Chandeleur': the day of crêpe and of the return of the sun after winter."

By Raül Garcia Diez from Spain



"I investigate which electrocatalysts are suitable for water splitting. I am also setting up a new experimental facility to carry out "in-operando" mea-

surements with the light from

BESSY II. So we can soon collect data while the electrochemical reactions of water splitting take place."





Desserts

Panellets

Catalan almond biscuits

Ingredients for 20-25 pieces 250 g ground almonds 200 g sugar 125 g potatoes grated lemon peel

60 g pine nuts

1 egg

"Panellets are a sweet that is only eaten on the 31st October for the Catalonian festival 'Castanyada' or on the 1st November for All Saints' Day."

Boil the peeled potatoes. When they are soft, drain water and crush with a fork. Then mix almonds, sugar, lemon and crushed potatoes in a bowl until a compact, homogeneous dough is obtained.

Use your hands to form balls of about 3 cm in size from the dough. Place the pine nuts in a bowl and roll the balls in it until they stick to the surface. Then brush the balls with egg. Preheat oven to 180 °C. Bake the balls for about 5 to 10 minutes until the pine nuts are brown.

Bon profit!

By Andrea Fantin from Italy



"My research topic deals with the understanding of the local crystal structure of compositionally complex alloys and its relation to material macroscopic properties such as hardness and elasticity. The local structure can be revealed by X-ray absorption spectroscopy at BESSY II."





Desserts

Tiramisu

Italian layer dessert

Ingredients for 10–12 persons 1000 g mascarpone 10 tbsp sugar 10 eggs 800 g lady fingers espresso some cocoa powder Split eggs in yolk and white. Mix mascarpone with eggs' yolk and add sugar. Use a mixer to beat the eggs' white until soft, but dense snow forms. The snow must be very dense. Try to put the bowl upside down for short time. Then mix the snow with the sugar-egg-mixture. This is called crema di tiramisu (tiramisu cream). Dip the lady fingers in fresh espresso. Fill a bowl alternately with a layer of tiramisu cream and a layer of espresso lady fingers. End with a layer of tiramisu cream and sprinkle with coccoa powder. Put in the fridge and wait at least one night.

Buon appetito!

"If you have done a good job, the bottom layers should not be liquid. If they are just liquid, invite me over for a coffee and we can solve the problem while tiramisu-tasting."