

BONNET Célia

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EDUCATION :

- 2018 **Habilitation degree** (French HDR), Université d'Orléans
2002-2006 **PhD and Monitorat**. Université Joseph Fourier (UJF) **Grenoble**.
2001-2002 **Master Degree in Physical Chemistry (DEA)**. UJF **Grenoble**.
2000-2001 **Agrégation** (French highest competitive exam for teaching). ENS **Lyon**.

PROFESSIONAL EXPERIENCES

- 2022- Centre de Biophysique Moléculaire (CBM) **Orléans**: CNRS Research Director
2010- 2022 Centre de Biophysique Moléculaire (CBM) **Orléans**: CNRS Researcher
2008-2010 CBM **Orléans**: Postdoctoral research associate with Dr. E. Jakab-Toth.
2006-2008 Trinity College **Dublin** : Postdoct research associate with Pr. Gunnlaugsson
2002-2006 CEA **Grenoble**, LCIB : PhD (supervisors: Dr. P. H. Fries et Dr. P. Delangle)

PUBLICATIONS

• Book Chapters

1. Marchetti L. A., Isaac M., **Bonnet C.S.***, “Responsive MRI Contrast agents » in ‘Lanthanide and Other Transition Metal Ion Complexes and Nanoparticles in Magnetic Resonance Imaging’, Ed. C.F.G.C. Geraldes, Taylor and Francis, **2024**, DOI: 10.1201/9781003374688-4.
2. **Bonnet C.S.**, Toth E., “Lanthanide-based MRI Contrast Agents” in ‘Women’s contributions to f-elements’, Ed. J.C.G. Bünzli, Elsevier, **2024**, in press.
3. Lacerda S., Djanashvili K., **Bonnet C.S.***, “Lanthanide containing systems for molecular magnetic resonance imaging and therapy » in Supramolecular chemistry in biomedical imaging, RSC, Ed. S. Faulkner, T. Gunnlaugsson, G. O Maille, Royal Society of Chemistry, **2022**, 163-206.
4. **Bonnet C.S.**, Toth E., « Molecular magnetic resonance imaging probes based on Ln³⁺ complexes » in Advances in Inorganic Chemistry, **2016**, 68, 43-96.
5. **Bonnet C.S.**, Toth E., « MRI contrast agents » in Ligand design in medicinal inorganic chemistry, Ed. T. Storr, John Wiley and Sons, **2014**, 321-354.
6. **Bonnet C.S.**, Tei L., Botta M., Toth E., « Responsive probes » in The chemistry of contrast agents in medical magnetic resonance imaging, Eds L. Helm, E. Toth, A.E. Merbach, John Wiley & Sons, Chichester, **2013**, 343-385.
7. **Bonnet C. S.**, Toth E., « MRI contrast agents » in Supramolecular chemistry : from molecules to nanomaterials, Ed. P.A. Gale, J.W. Steed, John Wiley and Sons, **2012**, 2693-2723.

• Patents

1. Toth E., Lacerda S., Bonnet C.S., Petoud S., Brevet Europe n°13305291.0 du 14 mars **2013** « Particles comprising luminescent lanthanide complexes »

• International peer-reviewed journals

1. Zimmerer K, Pallier A, Vileno B, Sanadar M, Szeremeta F, Platas-Iglesias C, Faller P*, **Bonnet CS***, Sour A*, Inorg. Chem. 2024, accepted. “A Bioinspired Cu²⁺-Responsive Magnetic Resonance Imaging Contrast Agent with Unprecedented Turn-On Response and Selectivity ». Selected ACS Editors’ choice.
2. Caillet E, Nunes L, Eliseeva SV, Ndiaye M, Isaac M, Pallier A, Morfin JF, Meudal H, Petoud S, Routier S, Platas-Iglesias C, Buron F*, **Bonnet CS***, *Dalton Trans* **2024**, 53,

- 9028-9041. "Investigation of Ln³⁺ complexation by a DOTA derivative substituted by an imidazothiadiazole: synthesis, solution structure, luminescence and relaxation properties".
- Jouclas R, Laine S, Eliseeva SV, Mandel J, Szeremeta F, Retailleau P, He J., Gallard J.F., Pallier A., Bonnet C.S., Petoud S, Durand P, Toth E., *Angew. Chem.*, **2024**, 63, e202317728. « Lanthanide-based probes for imaging detection of enzyme activities by NIR Luminescence, T1- and ParaCEST MRI »
 - Laine S., Jouclas R., **Bonnet C.S.**, Retailleau P., Steinmetz V., Pallier A., Garda Z., Tircso G., Durand P., Toth E., *Eur. J. Inorg. Chem.*, **2024**, 27, e202300784. "Structural, stability and relaxation features of lanthanide-complexes designed for multimodal imaging detection of enzyme activities"
 - Ndiaye M., Caillet E., Eliseeva S.V., Masson T., Marchetti L.A., Pallier A., Morfin J.F., Petoud S., Routier S., Buron F.*, **Bonnet C.S.***, *Eur. J. Inorg. Chem.*, **2024**, 27, e202300648. "Synthesis, Luminescence and Relaxometric properties of macrocyclic lanthanide complexes appended with an imidazothiadiazole, a heterocyclic bioactive scaffold."
 - Malikidogo K.P., Isaac M., Uguen A., Morfin J.F., Tircso G., Toth E., **Bonnet C.S.***, *Inorg. Chem.* **2023**, 62, 17202-17218. "Gd³⁺ complexes for MRI detection of Zn²⁺ in the presence of Human Serum Albumin: structure activity relationships"
 - Malikidogo K.P., Isaac M., Uguen A., Mème S., Pallier A., Clemençon R., Morfin J.F., Lacerda S., Toth E., **Bonnet C.S.***, *Chem. Comm.* **2023**, 59, 12883-12886. « Zinc sensitive MRI contrast agents: importance of local probe accumulation in zinc-rich tissues»
 - Malikidogo K.P., Pallier A., Szeremeta F., **Bonnet C.S.***, Seneque O.*, 2023, *Dalton Trans.*, 52, 6260. (Cover)
 - Wang G., Martin H., Amézqueta S., Rafols C., **Bonnet C.S.***, Angelovski G.*, **2022**, *Inorg. Chem.*, 61, 16256-16265. « Insights into the responding modes of highly potent gadolinium-based MRI probes sensitive to zinc ions" (Front Cover)
 - Lacerda S., Delalande A., Eliseeva S., Pallier A., **Bonnet C.S.**, Szeremeta F., Mème S., Pichon C., Petoud S., Toth E., **2021**, *Angew. Chem. Int. Ed.*, 60, 23574-23577. « Doxorubicin-sensitized luminescence of NIR-Emitting Ytterbium Liposomes: Towards direct Monitoring of Drug Release"
 - Laine S., Morfin J.F., Galibert M., Aucagne M., **Bonnet C.S.**, Toth E., *Molecules*, **2021**, 26(8), 2176. "Lanthanide DO3A-Complexes Bearing Peptide Substrates: The Effect of Peptidic Side Chains on Metal Coordination and Relaxivity"
 - Bonnet C.S.**, Toth E., *Current Opinion in Chem. Biol.*, **2021**, 61, 154. "Metal-based environment-sensitive MRI contrast agents"
 - Biscotti A., Estour F., Sembo-backonly B.S., Balieu S., Bosco M., Barbot C., Pallier A., Toth E., **Bonnet C.S.***, Gouhier G., *Processes*, **2021**, 9, 269. « Gd³⁺ complexes conjugated to cyclodextrins : hydroxyl functions influence the relaxation properties »
 - Malikidogo K.P., Martin H., **Bonnet C.S.***, *Pharmaceuticals*, **2020**, 13, 12, 436. "From Zn(II) to Cu(II) Detection by MRI Using Metal-Based Probes: Current Progress and Challenges" (Front Cover)
 - Jenni S., Bolze F., **Bonnet CS.**, Pallier A., Sour A., Toth E., Ventura B., Heitz V., *Inorg. Chem.*, **2020**, 59, 19, 14389-14398. « Synthesis and in Vitro Studies of a Gd(DOTA)-Porphyrin Conjugate for Combined MRI and Photodynamic Treatment"
 - Florès O., Pliquett J., Abad Galan L., Lescure R., Denat F., Maury O., Pallier A., Bellaye P.S., Collin B., Mème S., **Bonnet C.S.***, Ewen Bodio E. *, Christine Goze C.* *Inorg. Chem.* **2020**, 59, 2, 1306-1314. "Aza-BODIPY Platform: Toward an Efficient Water-Soluble Bimodal Imaging Probe for MRI and Near-Infrared Fluorescence"
 - Toth E., **Bonnet CS.***, *Inorganics*, **2019**, 7, 68. "Responsive ParaCEST contrast agents"

18. Oukhatar F., Eliseeva SV, **Bonnet CS.**, Placidi M., Logothetis NK., Petoud S, Angelovski G., Toth E., *Inorg. Chem.*, **2019**, 58, 13619 -13630. « Toward MRI and Optical Detection of Zwitterionic Neurotransmitters: Near-Infrared Luminescent and Magnetic Properties of Macrocyclic Lanthanide(III) Complexes Appended with a Crown Ether and a Benzophenone Chromophore»
19. Bödenler M., Malikidogo K.P., Morfin JF, Aigner CS, Toth E., **Bonnet CS.***, Scharfetter H.*, *Chem. Eur. J.*, **2019**, 25, 8236-8239. « High-Field Detection of Biomarkers with Fast Field-Cycling MRI: The Example of Zinc Sensing» sélectionné “Hot Paper”
20. Schmitt J., Jenni S., Sour A., Heitz V., Bolze F., Pallier A., **Bonnet CS.**, Toth E., Ventura B., *Bioconj. Chem.*, **2018**, 29, 3726-3738. “A porphyrin Dimer-GdDOTA Conjugate as a Theranostic Agent for One and Two-Photon Photodynamic Therapy and MRI”
21. Phukan B., Malikidogo K.P., **Bonnet C.S.**, Toth E., Mondal S., Mukherjee C. *ChemistrySelect*, **2018**, 3,7668-7673. “A bis-hydrated, eight-coordinate Gd(III) complex with very fast water exchange: synthesis, characterisation, and phantom MR imaging”
22. Isaac M., Pallier A., Szeremeta F., Bayle P.-A., Barantin L., **Bonnet C.S.***, Sénéque O.*, *Chem. Comm.* **2018**, 54, 7350-7353. « MRI and luminescence detection of Zn²⁺ with a lanthanide complex-zinc finger conjugate”
23. Malikidogo K.P., Da Silva I., Morfin J.F., Lacerda S., Barantin L., Sauvage T., Sobilo J., Lerondel S., Toth E.*, **Bonnet C.S.***, *Chem. Comm.* **2018**, 54, 7597-7600. « A cocktail of ¹⁶⁵Er(III) and Gd(III) complexes for quantitative detection of zinc by SPECT and MRI » (Back Cover)
24. **Bonnet C.S.***, *Coord. Chem. Rev.* **2018**, 369, 91. « Zn²⁺ detection by MRI using Ln³⁺-based complexes : The central role of coordination chemistry »
25. Laine S., **Bonnet C.S.**, Kalman F.K., Garda Z., Pallier A., Caillé F., Suzenet F., Tircso G., Toth E., *New J. Chem.*, **2018**, 42, 8012-8020. « Mn²⁺ complexes of open-chain ligands with a pyridine backbone : less donor atoms lead to higher kinetic inertness. »
26. Zhang W., Martinelli J., Peters J.A., van Hengst J.M.A., Bouwmeester H., Kramer E., **Bonnet C.S.**, Szeremeta F., Toth E., Djanashvili K., *ACS Appl. Mater. Interfaces*, **2017**, 9, 23458-23465. « Surface PEG grafting density determines magnetic relaxation properties of Gd-loaded porous nanoparticles for MR imaging applications »
27. Lavie-Cambot A., Tron A., Ducrot A., Castet F.*, Kauffmann B., Beauté L., Allouchi H., Pozzo J.-L., **Bonnet CS.***, McClenaghan ND.*, *Org. Biomol. Chem.*, **2017**, 15, 4367-4374. « Synthetic water soluble di-/tritopic molecular receptors exhibiting Ca²⁺/Mg²⁺ exchange »
28. Pollet R., **Bonnet CS.**, Retailleau P., Durand P., Toth E., *Inorg. Chem.*, **2017**, 56, 4317-4323. « Proton Exchange in a Paramagnetic Chemical Exchange Saturation Transfer Agent from Experimental Studies and *ab Initio* Metadynamics Simulation »
29. Fredy JW., Scelle J., Ramniceanu G., Doan BT., **Bonnet CS.**, Tóth E., Ménand M., Sollogoub M., Vives G., Hasenknopf B., *Org. Lett.*, **2017**, 19(5), 1136-1139. « [Mechanostereoselective One-Pot Synthesis of Functionalized Head-to-Head Cyclodextrin \[3\]Rotaxanes and Their Application as Magnetic Resonance Imaging Contrast Agents](#) »
30. Arinez-Soriano J., Alalad J., Carne-Sanchez A., **Bonnet CS.**, Busque F., Lorenzo J., Juanhuix J., Terban MW., Imaz I., Toth E., Maspoch D., *Chem. Eur. J.*, **2016**, 22, 13162-13170. « pH-responsive relaxometric behavior of coordination polymer nanoparticles made of a stable macrocyclic gadolinium chelate »
31. Sour A., Jenny S., Orti-Suarez A., Schmitt J., Heitz V., Bolze F., de Sousa PL., Po C., **Bonnet CS.**, Pallier A., Toth E., Ventura B., *Inorg. Chem.*, **2016**, 55, 4545-4554. « Four Gadolinium(III) complexes appended to a porphyrin: a water-soluble molecular

theranostic agent with remarkable relaxivity suited for MRI tracking of the photosensitizer »

32. Schmitt J., Heitz V., Sour A., Bolze F., Kessler P., Flamigni L., Ventura B., **Bonnet CS.**, Toth E., Chem. Eur. J., **2016**, 22, 2775-2786. « A theranostic agent combining a two-photon absorbing photosensitizer for photodynamic therapy and a Gadolinium(III) complex for MRI detection »
33. He J, **Bonnet CS.**, Eliseeva SV, Lacerda S, Chauvin T, Retailleau P, Szeremeta F, Badet B, Petoud S, Toth E., Durand P, J. Am. Chem. Soc., **2016**, 138, 2913. « Prototypes of Lanthanide(III) agents responsive to enzymatic activities in three complementary imaging modalities : visible/near_infrared luminescence, PARACEST-, and T₁-MRI » (Front Cover)
34. **Bonnet CS.**, Toth E., Chimia, **2016**, 70, 102-108. “Smart contrast agents for magnetic resonance imaging”
35. Zhang W., Martinelli J., Mayer F., **Bonnet C.S.**, Szeremeta F., Djanashvili K., RSC Adv., **2015**, 5, 69861-69869. “Molecular Architecture Control in Synthesis of Spherical Ln-Containing Nanoparticles”
36. **Bonnet C.S.***, Laine S., Buron F., Tircso G., Pallier A., Helm L., Suzenet F., Tóth E.*, Inorg. Chem., **2015**, 54, 5991-6003. “A pyridine-based ligand with two hydrazine functions for lanthanide chelation: remarkable kinetic inertness for a linear bishydrated complex”
37. **Bonnet C.S.***, Caillé F., Pallier A., Morfin J.-F., Petoud S., Suzenet F., Tóth E.*, Chem. Eur. J., **2014**, 20, 10959-10969. “Mechanistic studies of Gd³⁺-based MRI contrast agents for Zn²⁺ detection: towards a rational design”
38. Fredy J.W., Scelle J., Guenet A., Morel E., Adam de Beaumais S., Ménand M., Marvaud V., **Bonnet C.S.**, Tóth E., Sollogoub M., Vives G., Hasenknopf B., Chem. Eur. J., **2014**, 20, 10915-10920. “Cyclodextrin Polyrotaxanes as a highly modular platform for the development of imaging agents”
39. Roger M., Regueiro-Figueroa M., Ben Azzeddine C., Patinec V., **Bonnet C.S.**, Platas-Iglesias C., Tripier R., Eur. J. Inorg. Chem., **2014**, 6, 1072-1081. « Lanthanide Complexes with Heteroditopic Ligands as Fluorescent Zinc Sensors »
40. Mayer F., Zhang W., Brichart T., Tillement O., **Bonnet C.S.**, Toth E., Peters J.A., Djanashvili K., Chem. Eur. J., **2014**, 12, 3358-3364. “Nanozeolite-LTL with Gd³⁺ deposited in the large and Eu³⁺ in the small cavities as an MR-Optical imaging probe”
41. Carné-Sánchez A., **Bonnet C.S.**, Imaz I., Lorenzo J., Toth E., MasPOCH D., J. Am. Chem. Soc., **2013**, 135, 17711-17714. « Relaxometry studies of a Highly Stable nanoscale Metal-Organic Framework made of Cu(II), Gd(III), and the macrocyclic DOTP »
42. Lacerda S., **Bonnet C.S.**, Pallier A., Villette S., Foucher F., Westall F., Buron F., Suzenet F., Pichon C., Petoud S., Toth E., Small, **2013**, 9(16), 2662-2666. “Lanthanide-Based, Near-Infrared Luminescent and Magnetic Lipoparticles: Monitoring Particle Integrity”
43. de Sa A., **Bonnet C.S.**, Geraldès C.F.G.C., Toth E., Ferreira P.M.T., André J.P., Dalton Trans., **2013**, 42, 4522-4532. “Thermodynamic stability and relaxation studies of small, triaza-macrocyclic Mn(II) chelates”
44. Mendonça A.C., Martins, A.F., Melchior A., Marques S.M., Chaves S., Villette S., Petoud S., Zanonato P.L., Tolazzi M., **Bonnet C.S.**, Toth E., Di Bernardo P., Geraldès C.F.G.C., Santos M.A., Dalton Trans., **2013**, 42, 6046-6057. “New tris-3,4-HOPO lanthanide complexes as potential imaging probes: complex stability and magnetic properties”
45. Roca-Sabio A., **Bonnet C.S.**, Mato-Iglesias M., Esteban-Gomez D., Toth E., de Blas A., Rodríguez-Blas T., Platas-Iglesias C., Inorg. Chem., **2012**, **51**, 10893-10903. “Lanthanide complexes based on a diazapyridinophane platform containing picolinate pendants”

46. Caillé F., **Bonnet C. S.**, Buron F., Villette S., Helm L., Petoud S., Suzenet F., Toth E., *Inorg. Chem.*, **2012**, *51*, 2522-2532. "Isoquinoline-based Lanthanide Complexes: Bright NIR Optical Probes and Efficient MRI Agents"
47. **Bonnet C. S.**, Buron F., Caillé F., Shade C. M., Drahos B., Pellegatti L., Zhang J., Villette S., Helm L., Pichon C., Suzenet F., Petoud S., Toth E., *Chem. Eur. J.*, **2012**, *18*, 1419-1431. "Pyridine-based lanthanide complexes combining MRI and NIR luminescence activities »"
48. **Bonnet C. S.***, Devocelle M., Gunnlaugsson T., *Org. Biomol. Chem.*, **2012**, *10*, 126-133. "Lanthanide luminescent-binding peptides: Sensitising the excited states of Eu(III) and Tb(III) with a 1,8-naphthalimide based antenna."
49. Drahos B., Kubicek V., **Bonnet C.S.**, Hermann P., Lukes I., Toth E., *Dalton Trans.*, **2011**, *40*, 1945-1951. "Dissociation kinetics of Mn²⁺ complexes of NOTA and DOTA "
50. Surman A.J., **Bonnet C.S.**, Lowe M.P., Kenny G.D., Bell J.D., Toth E., Vilar R., *Chem. Eur. J.*, **2011**, *17*, 223-230. "A pyrophosphate-responsive gadolinium(III) contrast agent"
51. **Bonnet C. S.***, Fries P. H., *ChemPhysChem*, **2010**, *11*, 3474-3484. "Paramagnetic Relaxation Enhancements in Acetate and its Fluorine Derivatives Interacting with Gd³⁺: Complex formation, Structure, and Transmetallation"
52. **Bonnet C. S.**, Fries P. H., Crouzy S., Delangle P., *J. Phys. Chem.B*, **2010**, *26*, 8770-8781. "Outer-sphere investigation of MRI relaxation contrast agents. Example of a cyclodecapeptide gadolinium complex with second-sphere water"
53. **Bonnet C. S.**, Toth E., *C.R. Chimie*, **2010**, *13*, 700-714. "Towards highly efficient, intelligent and bimodal imaging probes : novel approaches provided by lanthanide coordination chemistry"
54. **Bonnet C. S.**, Pellegatti L., Buron F., Shade C. M., Villette S., Kubicek V., Guillaumet G., Suzenet F., Petoud S., Toth E., *Chem. Commun.*, **2010**, *46*, 124-126 s"hot article". "Hydrophobic chromophore cargo in micellar structures: a different strategy to sensitize lanthanide cations"
55. **Bonnet C. S.**, Toth E., *Future Med. Chemistry*, **2010**, *2*, 367-384. "Magnetic Resonance Imaging Probes for sensing biologically relevant metal ions"
56. **Bonnet C. S.**, Toth E., *Am J Neuroradiol*, **2010**, *31*, 401-409. "Smart MR imaging agents relevants to potential neurologic applications"
57. **Bonnet C. S.**, Fries P. H., Crouzy S., Sénèque O., Cisnetti F., Boturyn D., Dumy P., Delangle P., *Chem. Eur. J.*, **2009**, *15*, 7083-7093. "A Gadolinium-binding cyclodecapeptide with a large high-field relaxivity involving second sphere water"
58. **Bonnet C. S.**, Massue J., Quinn S., Gunnlaugsson T., *Org. Biomol. Chem.*, **2009**, *7*, 3074-3078. "Lanthanide luminescent gold nanoparticles: pH-driven self-assembly formation between Eu(III)-cyclen conjugated AuNPs and sensitising β -diketonate antenna in water"
59. **Bonnet C. S.**, Gunnlaugsson T., *New J. Chem.*, **2009**, *33*, 1025-1030. "Lanthanide Macrocyclic Quinolyl Conjugates as Luminescent Molecular Switches and Logic Gate Functions using HO⁻ and O₂ as Inputs"
60. **Bonnet C. S.**, Devocelle M., Gunnlaugsson T., *Chem. Commun.*, **2008**, 4552-4554. "Structural studies in aqueous solution of new binuclear lanthanide luminescent peptide conjugates"
61. **Bonnet C. S.**, Fries P. H., Gabelle A., Gambarelli S., Delangle P., *J. Am. Chem. Soc.*, **2008**, *130*, 10401-10413. "A rigorous framework to interpret water relaxivity. The case study of a Gd(III) complex with an α -cyclodextrin derivative"
62. Massue J., Plush S. E., **Bonnet C. S.**, Moore D. A., Gunnlaugsson T., *Tet. Lett.*, **2007**, *48*, 8052-8055. "Selective mono N-alkylations of cyclen in one step syntheses"
63. **Bonnet C.**, Gabelle A., Fries P. H., Pécaut J., Lebrun C., Delangle P., *Chem. Commun.*, **2005**, 625-627. "Inclusion complexes of trivalent lutetium cation with an acidic derivative of per(3,6-anhydro)- α -cyclodextrin"

64. **Bonnet C. S.**, Fries P. H., Magn. Reson. Chem., **2003**, *41*, 782-787. “A ^{19}F relaxometric study of the competition of Gd(III) and Lu(III) towards DTPA in water”

FUNDING

Coordinator: 2 ANR, France Life Imaging, PHC Ulysse, La Ligue Contre le Cancer, MITI CNRS, maison de la Chimie, PCSI ITMO Aviesan Inserm

Partner : 2 ANR, 1 regional project

TEACHING :

General chemistry: 1st and 2nd year (2h/week), M2: Chemistry of MRI contrast agents (2h), L3: Chemistry of Lanthanides (3 h), European Summer school on f-elements: organization and teaching (1 week every two years)

RESPONSIBILITIES :

Co-direction of the team “metallic complexes and MRI”

Direction of the French GDR Molecular Imaging Agents (2023-2027)

Member of board (treasurer) of the Centre of rare Earth and Actinides

STUDENTS SUPERVISION : 5 PhD students, 5 post-doc, 11 Master students since Sept 2012, and 9 European PhD students for short-term stay.

OTHERS

- 17 thesis examined; 4 selection of lecturers; French HCERES evaluation (2018)
- 2016-2021: Member of the CNRS comitee (chemistry for biology)
- 2020-now: Elected member of the section comitee CNU section 32 of Orleans' university
- Co-convenor of EuCheMS 2024 (Dublin, Ireland) “Chemistry for Health”
- 2021: Project “women in science” to elaborate a poster in the CNRS campus in Orleans
- 2020-now: Meetings with students in secondary school (once/twice/year)