

A sections across 16 different 32 sections across 16 different departments were engaged in Team-Based Learning (TBL), a form of collaborative learning that incorporates a specific sequence of individual work, team (group) work, and immediate feedback. TBL increases students' understanding of course concepts by getting them to solve authentic, real-world problems and helping them to develop their workplace learning skills. This reflects a paradigm shift, whereby the main course objective moves away from transmitting content (via lectures) to helping students learn how to use course content to solve

organized through backward design into five tl.330/asset/330\_ftp.pdf?v=1&t=hr0w4801&s=7f5 concepts (Larry K. Michaelsen and Michael Sweet, unit culminates with application activities that for their understanding of that material. Each assurance process. This process gets students Each unit begins with a structured readiness to seven large units; and 3) peer evaluation. key to the effectiveness of TBL's group application 3391e2f5b4d508cd6fb012b982367052b604d). The http://onlinelibrary.wiley.com/store/10.1002/ "The Essential Elements of Team-Based Learning" incorporating and utilizing that unit's core require the teams to make complex decisions assesses the students individually and in teams material(s) necessary for each curricular unit and to read and engage with the prerequisite formed, permanent student teams; 2) a curriculum activities, which form the heart and main focus The main elements of TBL are: 1) strategically-

of each unit, arises from requiring the teams to address the "4 S's":

- work on a significant problem that demonstrates the relevance and usefulness of the unit's concepts;
- 2. make a specific choice among clear alternatives;
- 3. engage with the *same* problem as all the other teams, so that each team cares about what the other teams have concluded and are invested in their rationales for doing so; and
- 4. simultaneously report their decisions and answers, so differences among the teams' responses can be probed, explored, and exploited for maximal learning and instructional effect (Larry K. Michaelsen, "Three Keys to Using Learning Groups Effectively" http://www.iub. edu/~tchsotl/part3/Michaelsen.pdf).

significant problems.

### The Library hosts The 22nd Annual Author's Book Party

Tuesday, April 29, 2014 from 12 pm – 2 pm

Please join us in honoring Brooklyn College authors who have published a book in the past year. The honorees and the entire faculty and professional staff are invited to a luncheon and presentation in the Library's Christoph M. Kimmich Reading Room. Any questions? Write to librarybookparty@brooklyn.cuny.edu

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### What is a typical TBL unit?





Appeals

Mini-lecture

Phase 3

Application Activities 2 to 5 class periods

(Adapted from Jim Sibley's "What is TBL?" http://www.teambasedlearning.org/Resources/ Documents/TBL%20Handout%20Aug%20 16-print%20ready%20no%20branding.pdf)

The TBL sequence is as follows: Phase 1 — Preparation: Students complete

Phase 1 — Preparation: Students complete readings and assignments for each unit before the class.

Phase 2 — Readiness Assurance: At the

beginning of each unit, the students are given a Readiness Assurance Test (RAT), which is closedbook and measures their comprehension and mastery of the assigned readings and helps them deepen their understanding of the course material needed to begin problem solving in Phase 3. Once the test period is over, the instructor may present a short mini-lecture to clarify concepts that are not well understood as evidenced by test scores. The purpose of Phase 2 is to ensure that students and their teammates have sufficient foundational knowledge to begin learning how to apply and use the course concepts in Phase 3.

- Individual RAT (iRAT): Students individually complete a multiple-choice test based on the readings.
- Team RAT (tRAT): Following the iRAT, the same multiple-choice test is re-taken with their team. These tests typically use a lottery-style scratchoff card. The students develop a consensus with their teammates, and then scratch off the opaque silver coating hoping to reveal a star

that indicates a correct answer. For tests with four response choices, the team is awarded 4 points if they uncover the correct answer on the first scratch, 2 points for the second scratch, and 1 point for the third scratch. If they are incorrect with any scratch, the team needs to reconsider, discuss, and make another decision.

- Appeals Process: Once the team has completed the team test, they have the opportunity to fill out an appeals form, which allows the team to identify questions where they disagree with the wording of the question or with ambiguous information in the readings. The instructor reviews the appeals outside of class time and reports the outcome of the team appeal at the next class meeting. Only teams are allowed to appeal questions (no individual appeals).
- Feedback and Mini-Lecture: Following the RATs and Appeal Process, the instructor provides a short, clarifying lecture on any difficult concepts.

Phase 3 — Application Activities: The majority of instructional time is spent on application activities, whereby the students and their teams use the foundational knowledge, acquired in the first two phases, to make decisions. The students engage in intra-team and inter-team discussion regarding the problem-based activities. Teams report out their decisions using a variety of methods, such as colored cards indicating a specific choice; alternatively their responses

might be written on small whiteboards or on poster boards (*Jim Sibley, "Student Orientation to TBL"* http://list.olt.ubc.ca/cgi-bin/ wa?A2=ind1108&L=TEAMLEARNING-L&P=494).

### The Team-Based Learning Academy

Under the auspices of the Roberta S. Matthews Center for Teaching, the Team-Based Learning Academy (*TBLA*; http://bctbl.edublogs.org/), which is supported by a grant from the CUNY Office of Academic Affairs, takes faculty through the process of transforming a traditional course into a TBL course. TBLA is training three cohorts, in total, 63 faculty — over the course of three semesters: spring 2013, fall 2013 and intersession during January 2014. See Table 1 for a list of faculty participants in each cohort.

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### Table 1 Faculty Participants Cohort 1 — Spring 2013

- o Jeanne Angus, *Childhood, Bilingual, & Special Education*, School of Education
- o Elisabeth Brauner, Psychology, School of Natural and Behavioral Sciences
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- o Joe W. Burden Jr., *Kinesiology*, School of Natural and Behavioral Sciences o Douglas Cohen, *Music*, School of Visual, Music,
- and Performing Arts o Maria Contel, *Chemistry*, School of Natural and
- Behavioral Sciences o Christopher Dunbar, *Kinesiology*, School of Natural and Behavioral Sciences
- o Tiffany K. Duncan, *Finance and Business Management*, School of Business o Graciela Elizalde-Utnick, *School Psychology*,
- *Counseling, & Leadership,* School of Education o Akiko Fuse, *Speech Communication Arts & Sciences,* School of Humanities and Social
- Sciences

- o Yu Gao, *Psychology*, School of Natural and Behavioral Sciences
- o Michael Goyette, *Classics*, School of Humanities and Social Sciences
- o Margrethe Horlyck-Romanovsky, *Health & Nutrition Sciences*, School of Natural and
- Behavioral Sciences o Romald O. Howell, *English*, School of Humanities
- o Herman Jiesamfoek, Early Childhood & Art
- *Education*, School of Education o Lawrence Johnson, *Sociology*, School of
- Humanities and Social Sciences
- o Sandra Kingan, *Math*, School of Natural and Behavioral Sciences o Charlene Kohler-Britton, *Early Childhood & Art*
- *Education*, School of Education o Natasha LaMont, *Biology*, School of Natural and
- Behavioral Sciences o Sharona A. Levy, *SEEK*, School of Humanities
- o JoAnn Luhrs, *Classics*, School of Humanities and
- Social Sciences o Jane E. Palmquist, *Music*, School of Visual,
- Music, and Performing Arts o Suklima Roy, Wolfe Institute/First College Year/
- Psychology, Office of the Associate Provost for Academic Programs & School of Natural and
- Behavioral Sciences o Brian Sowers, *Classics*, School of Humanities and Social Sciences
- o Rachelle J. Suissa, *Political Science*, School of Humanities and Social Sciences
- o Micha Tomkiewicz, Physics, School of Natural
- o Robert Viscusi, Wolfe Institute/English, School
- ot Humanities and Social Sciences o Ellen Walker, *Psychology*, School of Natural and Behavioral Sciences
- o Sybil White, SEEK, School of Humanities and Social Sciences

### Cohort 2 — Fall 2013

- o Cheryl Carmichael, *Psychology*, School of Natural and Behavioral Sciences o Hao-hsuan (Holly) Chiu, *Finance & Business*
- Administration, School of Business o Baila Epstein, Speech Communication Arts & Sciences, School of Humanities and
- Social Sciences o Lauren Grace Kilroy Ewbank, Art, School of Visual, Music, and Performing Arts
- o Lea Fridman, *English*, Kingsborough Community College
- o Louise Hainline, *Psychology*, School of Natural and Behavioral Sciences
- o Gail Horowitz, *Chemistry*, School of Natural and Behavioral Sciences
- o Amy E. Hughes, *Theater*, School of Visual, Music, and Performing Arts
- o Yoon-Joo Lee, Childhood, Bilingual, & Special Education, School of Education o Michael Meagher, Secondary Education, School
- of Education o Sharon O'Connor-Petruso, Childhood, Bilingual,
- *G Special Education*, School of Education o Kristina Riemer, *Psychology*, School of Natural and Behavioral Sciences
- o Alma Rubal-Lopez, *Childhood, Bilingual, & Special Education*, School of Education
- o Florence Rubinson, School Psychology, Counseling, & Leadership, School of Education
- o María R. Scharrón-del Río, School Psychology, Counseling, & Leadership, School of Education
- o Abe Tawil, Finance & Business Management, School of Business o Laura Tesman, *Theater*, School of Visual, Music,
- and Performing Arts o Sharon Vanek, Finance & Business Management,
- o Sharon Vanek, Finance & Business Management, School of Business

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### Cohort 3 — Intersession, January 2014

- o Edna Asknes, *Nursing,* Borough of Manhattan Community College
- o Jennifer Ball, Art, School of Visual, Music, and Performing Arts
- o Jean Bertho Derival, *Modern Languages* and Literatures, School of Humanities and Social Sciences
- o Candida Brooks-Harrison, Childhood, Bilingual & Special Education, School of Education
- o Eliza Dragowski, School Psychology, Counseling, & Leadership, School of Education
- o Mona Hadler, Art, School of Visual, Music, and Performing Arts
- o Paul McCabe, School Psychology, Counseling, & Leadership, School of Education
- o David McKay, English, School of Humanities and Social Sciences
- o Emily Molina, Sociology, School of Humanities and Social Sciences
- o Mim Nakarmi, Physics, School of Natural and Behavioral Sciences
- o Kosal Path, Political Science, School of
- Humanities and Social Sciences o Wayne Powell, *Earth and Environmental Sciences*, School of Natural and
- Behavioral Sciences o Dena Shottenkirk, *Philosophy*, School of
- Humanities and Social Sciences
- o Malka Simon, Art, School of Visual, Music, and Performing Arts o Sophia Suarez, *Physics*, School of Natural and
- Behavioral Sciences o John Van Sickle, *Classics*, School of Humanities
- and Social Sciences
- o Michelle Wang, Business Management,
- Borough of Manhattan Commünity College

During the spring 2013 and fall 2013 semesters, the faculty attended training workshops approximately two Fridays per month that provided direct experience of the various facets of TBL. During January 2014, we offered a four-day Intensive Training Institute for Cohort 3 faculty. With support from the TBLA trainers (Suklima Roy, Sharona Levy, and Graciela Elizalde-Utnick), the faculty reconceptualized their courses. This article highlights the reflections of some of the members of the first TBL cohort, who trained in spring 2013, redesigned their syllabi over the summer, and implemented TBL methodology in the fall 2013 semester.

### **Reflections from TBL Faculty** from the School of Business

Tiffany Duncan, Finance and Business Management: I am an adjunct instructor, and the first course I implemented TBL in was "Strategic Human Resource Management," BUSN 3240, which took place on Thursday nights from 6:30pm-9:30pm. My students and I come from working all day, have class all week and head home to families afterward and are back at work by 9am. My students loved TBL as it kept them engaged in their learning! In addition, it restored their faith in teams. Many students worked harder as they wanted to add value, which pushed them to be better, thereby learning more. For this course, I chose to create assignments and readiness assessment tests based on real case studies.

A memorable case was one where an organization downsized by closing one entire office. The assignment was to decide if the team agreed with the decision to downsize; if so, then how, when, and who would be downsized? If the team did not agree to downsize, what would the other course of action be – retraining, job organizations or situations.

This made for assignments that were interesting and relatable as they were based on familiar

> sharing or other measures of cost cutting? It was interesting to hear the diverse patterns of thought that led to each response being selected by a team. The assignments built team loyalty, and also increased the students' desire to listen to each other. Overall, this has been a great experience for my class and me. The energy in the classroom was unparalleled and most importantly the class grasped the content. In addition, TBL provided my working students with networking opportunities they felt they had missed out on previously. For this we are grateful.

### The School of Education

than 70% felt positive about the class format and taken at the end of the course showed greater was either the first time they had liked working phones the entire time. The groups were engaged to be doing. No one closed his/her eyes or used prepared to participate in the group activities. buy and read the material assigned and be better this would at least guarantee students would with Special Needs," CBSE 7503X. My feeling was process for my course "Introduction to Students l used a variation on the readiness assurance implement it full-bore by summer session. So to begin using it but too pressed for time to from many different perspectives. I was eager Education: TBL has been an exciting challenge Brooklyn College, even if it was their last. Some stated it was the best class they had had at that they knew how to immediately implement. 80% felt they had gained valuable information immensely to that determination. A casual survey format of doing the work in class contributed in a group and/or could see a value to it. The cooperated with one another and several said it while peers listened and considered. Students and actively contributing ideas and discussion, on time and eager to see what they were going for the daily three-hour summer class, always Students were actively engaged (and prepared) Jeanne Angus, Childhood, Bilingual, and Special

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they valued with most students identifying the process and feedback from most of the students was positive, liked, for a better sense of full completion, but answers and solutions from the various teams. accompanying applications resulted in diverse triggered a great deal of discussion and the interventions and analyzing outcomes. The RATs engage in researching the selected issue, creating theme of Data-Based Problem-Solving, and had to own relevant classroom issue under the umbrella could use as a model. Each team identified its presented an almost identical situation that I one chapter in TBL for Social Sciences (Stylus, 2012) from a two-semester format into one. Fortunately 7657; a graduate capstone course compressed implemented TBL in was "Action Research," CBSE cause for much angst. This time the course I investment of time and mental energy and a continuing work-in-progress, but a tremendous fall semester was not only a challenge and a amount of work accomplished as outcomes The semester end came faster than I would have The 'full-bore' implementation of TBL in the

be very sure of my goals and the desired student I hear my students exchanging with peers how trend throughout education. I am pleased when the philosophy of 'using new knowledge in these students were struggling to define their what they should be doing'. To my observation, focused and productive, appearing to not know intervention with a group observed to be 'less I was critiqued for my lack of supervision or outcomes. This became very apparent when from these past two semesters is that I need to high school students. But my serious take-away they could use this same format to engage their relevant applications' and support that growing they needed to recognize that for themselves. roles and levels of cooperative interchange and For myself, I remain very enthusiastic about

> I had to repeatedly re-examine exactly what I wanted them to gain from the semester's experience. Was it producing a good looking 'graduate level' paper or was it reaching a level of professional development that would allow them to benefit from what others could contribute to their learning? This is yet to be determined.

days) were invigorating. At first, the thought boisterous lot! once entered the room saying that he could with this diverse group of faculty. Doug (Music) discussions and debates; I very quickly bonded struck repeatedly by our intra- and inter-team College meeting that is so transformative? I was How often can one say that one is at a Brooklyn four teams of faculty, and I would be awestruck. times I would find myself looking around at our forward to joining my teammates. So many apprehensive. However, very quickly, I looked of losing precious writing time made me TBLA Fridays (what I fondly called our training learner. During the spring 2013 semester, our experience for me both as an educator and been an amazing, enriching, and transformative Counseling, and Leadership: The TBL Initiative has Graciela Elizalde-Utnick, School Psychology, hear us all the way down the hall! Yes, we were a

Like some of my colleagues, I partially implemented TBL over the summer in the "Seminar in Bilingual School Counseling," SPCL 7823, in an effort to practice some of the procedures. My intent was to do only one application exercise. But that changed very quickly and I wound up including application activities in every class session. It was amazing to see the students so engaged. In stark contrast, when I deviated from TBL and lectured for only about 45 minutes (and I am capable of lecturing for up to six hours, as I have in a course typically run on Sundays), I recognized the tell-tale signs of saturation — the glazed-over eyes and brains turning into mush, as

other similar courses. to traditional teaching, particularly for this and I realized at that moment that I would not return the nearly four-hour class went into the evening.

were highly engaged, although they sometimes conformed to the 4 S's (see above). The students with the material as I created TBL activities that and even more time to develop the application It was an enormous undertaking. All the work for sections of students thinking and application than in previously taught that they did in fact reach much deeper levels of yet, team performance repeatedly showed me that they could come up with the answers. And me, they would say. They didn't seem to trust them the answers — they wanted to hear it from commented that they would have liked me to tell l, myself, reached a higher level of engagement mean to minimize traditional teaching. However, just lecturing and facilitating discussion. I do not to develop higher-level activities, compared with more deeply about the course material, as I had material on a deeper level, I too had thought Furthermore, like the students who apply the worth it. The implementation is so enriching. to prepare just one week's materials. But it was activities. It easily would take an entire weekend TBL is upfront — it takes hours to develop RATs, to prepare the first five weeks of class material. Center for Teaching. Over the summer, I managed for Cohorts 1 and 2 in the fall and Director of the multiple roles: Both TBL participant and trainer in "Instructional Interventions in Schools," SPCL 7906, and I experienced the great challenge of my This fall semester I fully implemented TBI

new challenges and many unanswered questions. and Individual Needs," ECAE 7507, with several and Current Issues in Art Education: Social Values Even though I had spent my whole summer historical foundations class "Critical Historical Art Education: This fall semester, I started my Herman Jiesamfoek, Early Childhood and

> much time to plan for my class activities. Another jump into a dark bottomless lake. I took a deep not want to let go of any of the readings, since, easily adapt it to a TBL approach. I knew that I did literature-based, and I did not feel that I could challenge was that this course was heavily had to be. As a consequence, I was not sure how had no idea how long the applications and RATs try this TBL approach in the art education class. eyes and jumped; I had, after all, committed to breath and this is exactly what I did. I closed my and RATs for this class, it felt like I was pushed to The first challenge that I encountered was that I reading TBL material and preparing applications



Students in "Instructional Interventions in Schools," SPCL 7906 Photo: Elizalde-Utnick

gain a strong and rich perspective and overview more focused. Regarding assigned readings, I still in my preliminary estimation a bit deeper and we now had in this TBL class were different and their particular positions. The discussions that students write syntheses, and defend and discuss art education field. In previous classes, I had the of the historical past and current issues of the in my opinion, these allowed the students to class that I taught in a non-TBL way in the past, recognize the same student behavior as in the

except that students who did not do the readings could not hide so easily in the back of class. These students quickly found out that they were individually responsible for their own preparatory reading, and that a subjective, emotional, noninformative input was not sufficient to hold up an argument in the discussions. A nice outcome from this TBL approach is that it often led to various outputs of wonder, surprising insights, laughter, and fun.

An issue that perhaps is particular to the cohort nature of the art program is that the students are used to interacting readily with each other and now have become competitively team-oriented. In our seventh class meeting, some students jokingly remarked that they hardly spoke to the other team members anymore. I understood their reaction since I had a similar experience in my own faculty TBL workshops that were set up in the same TBL team way. Another challenge, also specific to this class perhaps, is



Students in "Critical Historical and Current Issues in Art Education: Social Values and Individual Needs," ECAE 7507. Photo: Josanfoek

that this year the class size was smaller than the usual 18 to 20 students. This was due to issues beyond the program's control. The class thus ended up with only two teams of five persons each. Although I do not yet have the experience of teaching this TBL approach to a large group of five or six teams, I imagine that with a larger group the class discussions could get more intense. With only two groups, I found that the students too easily accepted each other's positions non-critically.

TBL takes an enormous amount of preparation, at least in the beginning. During class, however, it did allow me moments where I could "let go" and listen, observe, and notice class details that would normally have escaped me. I suddenly became aware of particular habits and patterns in students' thinking and arguing style and how they positioned themselves and reacted in unusual, unfamiliar situations, often challenged by unknowingly slipping into anachronistic modes of thinking.

Overall, I am grateful for this opportunity to engage in and evaluate the value of TBL for teaching and learning in our arts education program.

and never quite did was exciting to me, especially workshops for TBL with a very open mind, I was for TBL is quite challenging; and while I cannot effective and significant way. The planning time that utilizes everyone's resources in the most in-depth, what it means to be part of a community others. TBL truly allows students to experience, depends primarily on building relations with all fields of study, the field of early childhood as my field is early childhood education. As in elevated to where I had always hoped it would go idea that my group work with students could be an absolute convert after the first meeting. The Art Education: As someone who came to the Charlene Kohler-Britton, Early Childhood and say that the planning comes easily (it doesn't) and

is less time consuming than traditional planning (it isn't), the application of what is planned and how the students engage in the course content makes up for that. Therefore, I must say after this first semester of using TBL in my course on "Early Childhood Education Foundations," ECAE 2004, I continue to be smitten.

### The School of Humanities and Social Sciences

to spend time on creating applications, which when reviewing some challenging material from critical thinking. activities stimulated and deepened the students' class. Rather, it appeared team-based application to an end I no longer saw the worried faces in in a real work setting. As the semester came develop informed clinical opinions that are critical clinical cases. And Thope that this would help to activities and discussing issues for particular involved my students engaging in problem solving Implementation of this approach allowed me in both undergraduate and graduate programs to practice applying the concepts that were worried faces at the beginning of the semester. but also for the students. Unsurprisingly, I saw the tRAT. This is not only a new approach for me was no lecture or PowerPoint slides except for audio samples. However, in my TBL class, there providing supplemental materials such as summer and fully implemented the approach for and Language Development," SPEC 2231, last approach for an undergraduate course, "Speech opening experience. I partially implemented the hope to become clinicians in the near future. introduced in the readings. Many of the students in the TBL class, I was able to devote more time PowerPoint slides, handouts, video clips, and for a graduate course. I normally lecture while in the fall, I partially implemented the approach the course this past fall semester. Additionally Sciences: Learning about TBL was an eye-Akiko Fuse, Speech Communication Arts and

> courses. I intend to use the TBL method in all future for deeper learning of the subject for students. but also the structure of the course allowed experience help them see that there is great value lecture course students. Not only did the team much more from their TBL experience than the The students in the TBL course appeared to gain could see the difference in the students' learning. experience and the other as a lecture — and I more critically. This fall I taught two sections of assignments more analytically and to think new approach. They have learned to read their surprised at how the students adapted to this with a SEEK community, I have been pleasantly I was skeptical about how TBL would work in the views and insights of others while learning "Classical Cultures," CLAS 1110 — one as a TBL JoAnn Luhrs, Classics and SEEK: Although initially

STAR and College NOW Programs. College, especially those who are teaching in the recommend TBL to other professors at Brooklyn that's extremely important. I would definitely how to evaluate one another as teammates. And together to find an answer, and most importantly, learned consensus building skills, how to work great overall; but once they paired up in teams Their performance on the iRATs wasn't always so strong indicator of how they improved as a class. doing the group work with them, because it was a final exam, and other assignments. I really enjoyed science jeopardy, which we did as a review for the including a debate on gay marriage, political tRATs and at least five application activities, with the students. But this fall, they had 10 iRATs/ previous semesters I did very little group work from the STAR Program at Brooklyn College. In POLS 1001, this fall semester with students course "Introduction to American Government," adjunct instructor, and I worked TBL into my Rachelle J. Suissa, Political Science: | am an to do the activities, they did much better. They

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write good essays, but they looked forward to discussing the readings at the end of the period material in their groups, which continued when class. The students loved working in teams. They reading material, which would help them write My hope was that by using TBL, my students Sybil White, English and SEEK: I wasn't sure how definite, yes. with their teammates. Would I use Team Based writing their essays and sharing their papers team-based discussions. Not only did the students thought-out papers, which I attribute to their became a reality. The students were writing well as they left the room. My hope for the class the class came together, and students were still had very heated discussions about the reading more surprised with how well TBL worked in my well thought-out essays. I could not have been would do more in-depth analysis of the assigned Composition I," ENGL 1010, class this fall semester. to use the methodology in my Freshman "English TBL would work in my classroom when I decided Learning again in my classroom? My answer is a

### The School of Natural and Behavioral Sciences

Natasha LaMont, *Biology*: By the end of my first semester using TBL, I noticed there were additional benefits to the approach besides enhancing the student learning process. Students had a clearer understanding of their personal accountability for their school work, as well as accountability to their team members. They no longer depended on the weekly lectures from the instructor, and understood the importance of preparing for class ahead of time. The readiness assurance process assessed the students' learning comprehension for the instructor and promoted in-depth discussion of the material in the classroom.

> in 10 years. The task for the students was to find deliver their commitments to the City of New on the ongoing efforts of CUNY colleges to component of the Macaulay seminar was focused efforts. During the fall 2013 semester the research the end of now. (Tomkiewicz, Momentum Press, and on the book Climate change: The fork at Both courses are anchored on climate change that is given to students in the fall semesters. second was a Macaulay Honors College seminar education course "Energy Use and Climate Change," workshop to explore application in two courses: Micha Tomkiewicz, Physics: I took the TBL the average Chinese person will be as rich as the and calculate, assuming a business as usual personal energy use and carbon tootprints tier Core course was to calculate the students' accordingly. The research questions for the upper out how the colleges are doing and rank them research component that requires collaborative 2012). Both courses are also anchored on a strong CORC 3302, taught every semester, and the The first course was an upper tier, general TBL methodology. can integrate nicely the in-class components scenario, how the world will look like when York to reduce their carbon footprints by 30% with the research components through the average American. The thinking was that one

The TBL faculty workshop was presented to us during the spring 2013 semester in the TBL format that gave us plenty of opportunities to look for ways to adapt the format to the special needs of our courses. The first challenge in applying the approach was obvious from the start: how to adapt TBL to these two very differently configured classes.

I had seven students in the Macaulay seminar and 40 students in the upper tier course. I set the Macaulay students to work as one group and I divided the upper tier course into groups of six or

had applied previously. Hopefully, next semester and pleasant than the classroom teaching that I the collective TBL work was much more effective providing the best evidence that the collective were consistently higher than those on the iRATs, were that in both courses the scores on the tRATs that were assigned. The first compelling results connected the text with the research components the semester of both classes was dedicated to Scale-Up (http://scaleup.ncsu.edu/) teaching that the methodology. we will be able to perform a formal assessment of semester, I can conclude without reservations that mode of learning works. With the end of the rest of the time was devoted to applications that iRAT and a tRAT that covered three chapters. The the textbook. Every week the students took an has many similarities with TBL. The first half of to a classroom that was originally designed for seven students. The upper tier class was moved



Students in "Energy Use and Climate Change," CORC 3302 Photo: Tomkiewicz

### The School of Visual, Media, and Performing Arts

students' first college year experience. one larger course, as happened here. Adding the This section of MUSC 1300 was paired with two important was selecting groups on the first day of work within a course. What I found to be most is that it outlines effective techniques for group was "Music: Its Language, History, and Culture," maintain its own identity and should enhance the the same cohort made it easier for each cohort to requirement that team members must all be from cohorts intact when two groups combine into been a challenge to keep the integrity of the student learning community cohorts. It has always sections of English 1010 to create two first-year gave a solid foundation for effective team work. this pedagogy but following those two guidelines place inside the classroom. There is much more to as well as making sure that all group work took with different levels of prior knowledge of music class for the entire term based on mixing students MUSC 1300. One of the strengths of TBL training employing for the first time TBL techniques Doug Cohen, Music: The course I taught

the college faculty and administration has also students to work on application assignments unconvinced about certain aspects of TBL (e.g. been important. In the past, faculty members a recognized college-wide initiative supported by especially effective. Being part of implementing of class), I have found these techniques to be instead of working on these assignments outside selected groups; allocating class time for professor-assigned teams instead of studentresponsibility for learning. Although initially teaching efficacy and enhanced student for many years, applying the TBL strategy improved effective collaborative group teaching techniques sections of MUSC 1300. Although I have used Jane Palmquist, Music: I used TBL in each of my

using newer or non-traditional techniques and methods may have been criticized for not using the expected lecture-method. TBL has given faculty permission and encouragement to experiment with pedagogy — in effect, providing faculty a safety net and support system.

One of the most exciting aspects of the TBL Academy is that it has invigorated and energized faculty across the entire College. It has ignited faculty discussions about teaching and about how to improve teaching. TBL has refocused campus discussion from almost exclusively about curriculum to re-examining how we teach and how our students learn. I don't recall any other time in the past 15 years when so many faculty from across the campus were talking about teaching and improving teaching.

### **Concluding thoughts** Sharona Levy, *School of Humanities* and Social Sciences

and/or won't do, or about our workload. Yet in is subject non grata. Most conversations around research or writing, but somehow teaching itself students do better in our classes. It's ironic that which gave me time and space to sit down with College teaching tends to be an individual and sense of camaraderie and support that developed consequences of our TBL training has been the focused on the relationships among pedagogy, over the course of a semester: we became a team each TBL cohort, something amazing happened about what our students don't know, can't do, teaching seem to consist of mutual complaints we won't hesitate to talk to each other about our my colleagues and talk about how to help our had many experiences at Brooklyn College often isolated experience. I certainly haven't among the faculty who took part in the training. it was because we did the training using TBL course design and student learning. Whether One of the most unexpected and exciting

> can't be done in my discipline." And many others but it wouldn't work well here"; or "I can see said: "I'm sure TBL works at other institutions over, at the start of the training, someone always early-career, came to enjoy working together to disciplines, full-time and part-time, seasoned and who signed up, colleagues in very different methodology or just due to the type of people their colleagues' contributions really came to were thinking the same thing. But over the how TBL would work in some disciplines, but it based experience. But it wasn't easy. Over and that we could give students a richer contenttry out a new pedagogy. They did so in the hope of my colleagues and how it helped me: we had a Friday morning to share successes and the number of people willing to show up on students. We were always surprised by connected — for the faculty as much as for the perspectives and experiences of their team appreciate TBL as well as appreciate the diverse dismissive, or resistant to both TBL and/or happening: people who were initially skeptical, course of the training something interesting kept support group at Brooklyn College. all finding an increasingly diverse and welcoming "What IS this team-based learning about?" we are new group who has been open to find out just steps and leaps into the unknown. And with every rushed out of our comfort zones; we took baby to rethink everything; we crawled and sometimes I was surprised — and humbled — by the courage challenges as they worked through using TBL. members. More and more I believe the two are