NEW YORK CITY TEACHERS' RETIREMENT SYSTEM REGULAR BOARD MEETING Held on Thursday, February 28, 2019 at 55 Water Street б New York, New York ATTENDEES: JOHN ADLER, Chairperson, Trustee, Finance PATRICIA REILLY, Executive Director, TRS THADDEUS MCTIGUE, Deputy Executive Director, TRS DAVID KAZANSKY, Trustee, TRS THOMAS BROWN, Trustee, TRS DEBRA PENNY, Trustee, TRS SUSANNAH VICKERS, Trustee, Comptroller's Office CYNTHIA COLLINS, Mayor's Office LINDSAY OATES, Trustee VALERIE BUDZIK, TRS 19 RENEE PEARCE, TRS 20 LIZ SANCHEZ, TRS SUSAN STANG, TRS ROBERT BETHELMY, TRS KAVITA KANWAR ANNETTE HANRAHAN ANTHONY MEZZACAPPA ATTENDEES (Cont'd) CARMELA CRIVELLI SHERRY CHAN, Chief Actuary BRYAN BERGE, Corporation Counsel MEL AARONSON б PROCEEDINGS 

2 (Time noted: 3:38 p.m.) 3 4 CHAIRPERSON ADLER: Good afternoon, everybody. Welcome to the Teachers' 5 б Retirement System, City of New York, 7 regular board meeting of February 28, 8 2019. 9 Thad, please call the roll. 10 MR. MCTIGUE: John Adler? 11 CHAIRPERSON ADLER: I'm here. 12 MR. MCTIGUE: Thomas Brown? 13 MR. BROWN: Here. 14 MR. MCTIGUE: David Kazansky? 15 MR. KAZANSKY: Present. 16 MR. MCTIGUE: Lindsay Oates? 17 MS. OATES: Here. 18 MR. MCTIGUE: Debra Penny? 19 MS. PENNY: Here. 20 MR. MCTIGUE: Susannah Vickers? 21 MS. VICKERS: Here. 22 MR. MCTIGUE: We have a quorum. 23 CHAIRPERSON ADLER: Thank you, Thad. 24 Let me note for the record that 25 Ms. Reilly is a little under the weather 0004 1 today, so Mr. McTigue has agreed to pinch 2 hit. Please Thad, take us away. 3 MR. MCTIGUE: So, the first item of 4 business is an update on the TRS 5 operations. So, we'll turn it over to Ms. б Kanwar. 7 MS. KANWAR: Thank you, Thad. 8 TRS has begun a beneficiary awareness 9 campaign for members on our website and 10 social media. We are stressing the 11 importance of designating beneficiaries --12 keeping the designations up to date. 13 We are also directly contacting over 14 36,000 members who don't have a 15 beneficiary designation on file for one of 16 their TRS accounts. 17 The TRS member education team has 18 ticked off its outreach efforts for 2019. 19 The team just concluded six in-house 20 educational programs during the DOE 21 midwinter recess. 22 On February 9 the team represented TRS 23 at the annual convention of New York City 24 Elementary School Principals Association. 25 Outreach for March includes events for 0005 1 the Middle School Principals Association, 2 CUNY staff and campuses, Department of 3 Education staff, and the annual UFT

4 paraprofessional festival on March 23. 5 Approximately 1,500 members elected to 6 increase their TD contribution rate in 7 advance of the retroactive payment they received on February 15. Under the TSA 8 9 contract, the retroactive payment provides 10 the members a rare opportunity to make a 11 large one-time deposit into their TD 12 account. 13 TRS contacted eligible members by 14 e-mail with instructions for adjusting 15 their -- rate before and after the 16 payment. 17 Thank you. 18 CHAIRPERSON ADLER: Thank you. 19 MR. MCTIGUE: The third item on the 20 agenda is the executive director's report. 21 It has been suggested that the next 22 regular meeting of the Teachers' Retirement Board be held on the third 23 24 Thursday of the month, March 21, 2019. 25 Kindly mark your calendars. 0006 1 The following resolution was laid over 2 at the January 24, 2019 board meeting, and 3 is again presented to the Teachers' 4 Retirement Board for consideration: The 5 resolution regarding proposed changes to б actuarial assumptions and methods. 7 MR. KAZANSKY: Please skip to the 8 resolves. 9 "Resolved, that the MR. MCTIGUE: 10 Board accept the Actuary's January 17, 11 2019 report and supports the proposed 12 changes in the actuarial assumptions and 13 methods; 14 "And be it further resolved that the 15 Board adopts those actuarial assumptions 16 requiring Board approval, i.e., the 17 demographic and economic assumptions 18 presented as Appendix B of the January 17, 19 2019 report; 20 "And be it further resolved that the 21 Board requests that the Corporation 22 Counsel develop, with review and 23 assistance of the Actuary, and that the 24 New York State Legislature and Governor 25 enact, legislation to continue components 0007 1 of the Actuary's proposed changes in 2 actuarial assumptions and methods that 3 require legislation, e.g., actuarial 4 interest rates." 5 CHAIRPERSON ADLER: Thank you, Thad.

б Is there a motion to adopt this 7 resolution regarding proposed changes in 8 actuarial assumptions and methods? 9 MR. BROWN: Motion. 10 MS. VICKERS: Second. 11 CHAIRPERSON ADLER: Discussion? 12 And I'll point out that the Actuary is 13 with us, as is a representative of Corporation Counsel, if there are any 14 15 questions on either the actuarial proposal 16 or the piece involving the Corporation 17 Counsel. 18 (No response.) 19 Discussion? 20 I'd just say for the record that we are supportive of these changes. 21 22 Anyone else? 23 The motion is made and seconded. All 24 in favor of the motion regarding proposed 25 changes in actuarial assumptions and 0008 1 methods, please say "Aye." 2 (A chorus of "Ayes.") 3 All opposed say "Nay." 4 Any abstentions? 5 (No response.) 6 Motion carries. 7 MR. McTIGUE: The third item on the 8 executive director's report: The 9 following was laid over at the January 24, 10 2019 board meeting, and is again presented to the Teachers' Retirement Board for 11 consideration: Proposed changes in 12 13 options factors. 14 MR. KAZANSKY: Again, please skip to 15 the resolves. 16 MR. MCTIGUE: Thank you. 17 "Resolved, that in accordance with 18 Section 13-154 of the Administrative Code 19 of the City of New York, the Board of 20 Trustees hereby adopts, for the purposes 21 of computing maximum and optional 22 retirement allowances, the actuarial 23 assumptions recommended by the Actuary and 24 used to create the new option factors as 25 presented in the 2019 option factors 0009 1 report; 2 "And be it further resolved that the 3 2019 basis for computing retirement allowances will become effective as of 4 5 April 1, 2019 for all retirements from TRS 6 that occur on or after such date, and 7 continue in effect until such time that

8 any new mortality tables or interest rates 9 are adopted to replace those presented in 10 the 2019 options factor report." 11 CHAIRPERSON ADLER: Thank you, Thad. 12 Just to clarify, that it is Section 13 13-514 of the Administrative Code. 14 Is there a motion to adopt this 15 resolution regarding the proposed changes 16 in option factors? 17 MS. PENNY: So moved. 18 CHAIRPERSON ADLER: Thank you, Ms. 19 Penny. 20 Is there a second? 21 MR. KAZANSKY: Second. 22 CHAIRPERSON ADLER: Thank you, Mr. 23 Kazansky. 24 Discussion? 25 (No response.) 0010 1 I have one question. I want to confirm with TRS that the April 1, 2019 date is 2 3 not a problem for the system? 4 MS. REILLY: It is, from a system 5 change standpoint. From a system change б standpoint, it's going to take us quite a 7 few months to be able to make changes that are necessary. We will be --8 9 MR. MCTIGUE: We have operational 10 challenges, and I'll say they are not minimal. And in order to service our 11 members we are looking at a number of ways 12 13 in order to do that, so that the service 14 date anticipated is not interrupted. 15 That may include finalizing them to an 16 extent that they would have, had these 17 changes not been made; and then revisiting 18 those situations once we have the capacity 19 to correctly calculate everything based on 20 these new option factors. 21 CHAIRPERSON ADLER: I have a question 22 about that. So, let's say a member goes 23 to retire on June 25, so it's after the 24 April 1 effective date. And at that point 25 they have to choose which option they are 0011 1 going to take; and that choice is based on 2 the calculation of the numbers that they 3 are provided. Presumably at that point 4 the numbers that they are provided will 5 not be based on the new option factors, б because that won't be in effect yet. And 7 if we want to make it cleaner, we could 8 say they go to retire on April 1. 9 So the new option factors, we don't

have the capacity to calculate them yet. 10 11 So, then, at some later date, let's say 12they choose Option X. And then at some 13 later date you say -- actually, the 14 options have changed, and these are the 15 options. Or these are the options for 16 your options, because these employees can 17 either choose the old option factors or 18 the new option factors, right, the ones 19 that are working now but choose to retire 20 on or after April 1. 21 MR. KAZANSKY: They're actually going 22 to get the better of what the option 23 factors are. 24 MS. BUDZIK: Right. 25 CHAIRPERSON ADLER: Can I ask a 0012 question about that? Again, it's a 1 2 question to which I don't know the answer. Part of what they are choosing is 3 4 whether to take a reduced pension like a 5 joint survivor or a full reduced or a б joint plus ten, whatever the different 7 options are --8 And might that choice not be affected 9 by what the option factors are? And if it 10 is, can they change that choice later on? 11 No, Tom is shaking his head no. 12 MR. KAZANSKY: In our experience, UFT 13 members are generally picking a choice for 14 an option that is going to provide some 15 sort of benefit for their beneficiaries, 16 whether a spouse or whoever it is they 17 have. 18 And the option factor is not paramount 19 in their mind. What is paramount in their 20 mind is, what percentage of my total 21 salary is my spouse or whoever my 22 beneficiary is going to be? 23 So the option factor will obviously 24 show them how much of a reduction they are 25 going to see. But, if anything, the 0013 1 reduction is going to be a lesser 2 reduction with these new factors. So I 3 don't think it necessarily will impact. 4 CHAIRPERSON ADLER: Impact the 5 decision. б MR. KAZANSKY: That decision piece. 7 If anything, they'll get a nice surprise 8 when the option factor increases. 9 MR. MCTIGUE: Less expensive --10 MR. BROWN: Most are choosing an 11 option to protect their pension for two

12 lifetimes based on need, and not 13 necessarily what the cost of that will be. 14 MS. PENNY: It's also a very ballpark 15 figure that we're given when they come for 16 a consultation, so we're not really 17 looking at the number to the fence, 18 they're just looking again, as David and 19 Tom said, how well they have to provide 20 for something else. 21 CHAIRPERSON ADLER: Is the system 22 giving them a ballpark figure? 23 MS. PENNY: No; the UFT. 24 CHAIRPERSON ADLER: Don't they also 25 meet with the system to find out what 0014 they'll get? If they're a non-UFT member, 1 2 they come to meet with UFT? 3 MS. REILLY: To get a benefit from 4 the Teachers' Retirement System. 5 CHAIRPERSON ADLER: That's what I б thought. 7 MS. REILLY: It's not really a 8 ballpark figure, it's basically a 9 calculation. 10 CHAIRPERSON ADLER: I just want to 11 confirm that nobody here is in a position 12 to know, which I am not, believes that not 13 being able to implement the option factor 14 on the day that it becomes effective is 15 going to be a problem in any situation for 16 any member. 17 MR. MCTIGUE: From an operational 18 standpoint, the time wouldn't be great, 19 but we will work with folks to make sure 20 the members are not impacted negatively. 21 MS. REILLY: And that they have some 22 understanding that it can change for the better. 23 24 MS. BUDZIK: And they will ultimately 25 get the best. 0015 1 MS. VICKERS: From a timing 2 standpoint, we're trying to confirm that 3 no one will disadvantaged because of 4 timing. 5 MS. BUDZIK: Right. б CHAIRPERSON ADLER: I'm mostly 7 thinking about irrevocable decisions that 8 are made based on incomplete or not up to 9 date information. And I don't really want members to make irrevocable decisions --10 11 MR. BROWN: The decisions which are 12 irrevocable -- decision at their 13 retirement, but to protect their pension

for a lifetime or two lifetimes. It's not 14 15 a question of whether they're choosing the 16 option or not; it's just the cost of that 17 option which they need time to calculate 18 CHAIRPERSON ADLER: There's more than one way to protect the pension for two 19 20 lifetimes, right? There's different 21 things based on how long people think 22 they're going to live and what other 23 income they have and all that. 24 MR. KAZANSKY: Most people will make 25 that decision prior to coming here to 0016 1 submit their paperwork. They'll know they 2 want their beneficiary to receive half of 3 whatever their pension is going to be, a 4 quarter or three-quarters. 5 And from our understanding in listening б to the Actuary's comments and reading the 7 reports, while there will be a difference 8 in how much the pension is reduced or not 9 reduced, it's not material enough we 10 believe to make a difference in any one 11 actual decision making process. 12 MS. BUDZIK: Implementing by the 13 April 1 date, which we will effectively do 14 with re-running these to give them the 15 best of is better than waiting a longer 16 period of time. 17 CHAIRPERSON ADLER: Okay. 18 Anyone else have a comment to make on 19 this? 20 (No response.) 21 So, we have a motion on the floor to 22 approve the changes in the option factors. 23 That change will take place effective 24 April 12, 2019. 25 All in favor of the motion please say 0017 1 "Aye." 2 (A chorus of "Ayes.") 3 All opposed say "Nay." 4 Any abstentions? 5 (No response.) б Motion carries. Thank you. 7 MR. MCTIGUE: Item number 4, 8 attendance at a conference. The following 9 resolution is presented for consideration 10 and possible adoption. 11 "Resolved, that the Trustees of the 12 Teachers' Retirement Board hereby approve 13 the attendance and participation of the 14 executive director and/or her designees 15 and any invited Trustees to the Mayor's

16 Office of Pension Investment Conference on 17 Fiduciary Duties and Collaboration Conference on March 26, 2019." 18 19 CHAIRPERSON ADLER: Is there a motion 20 to approve? 21 MR. BROWN: So moved. 2.2 CHAIRPERSON ADLER: Is there a 23 second? 24 MS. VICKERS: Second. 25 CHAIRPERSON ADLER: The motion's been 0018 1 made and seconded. 2 Any further discussion? 3 (No response.) 4 All in favor of the motion to approve 5 attendance at this conversation please say б "Aye." 7 (A chorus of "Ayes.") 8 All opposed say "Nay." 9 Any abstentions? 10 (No response.) 11 Motion carries. 12 MR. MCTIGUE: Item Number 5, resolution regarding the attendance at a 13 14 conference. The following resolution is 15 presented for consideration and possible 16 adoption. 17 "Resolved, that the Trustees of the 18 Teachers' Retirement Board hereby approve 19 the attendance and participation of the 20 executive director and/or her designee and any interested Trustee at the National 21 22 Conference on Public Employee Retirement Systems and NCPERS 2019 annual conference 23 24 and exhibition, from May 18 through the 25 22, 2019." 0019 1 CHAIRPERSON ADLER: Is there a motion 2 to approve this resolution for attendance 3 at this conference? 4 MS. VICKERS: So moved. 5 CHAIRPERSON ADLER: Is there a б second? 7 MS. PENNY: Second. 8 CHAIRPERSON ADLER: Discussion? 9 (No response.) 10 All in favor of the motion to approve 11 attendance at the NCPERS from May 18 to 12 May 22 please say "Aye." 13 (A chorus of "Ayes.") 14 All opposed say "Nay." 15 Any abstentions? 16 (No response.) 17 Motion carries.

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        Thad, does that concludes the executive
19
     director's report?
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          MR. MCTIGUE: Yes, sir.
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          CHAIRPERSON ADLER: The next item is
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     the calendar.
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          MR. MCTIGUE: The first item is the
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     approval of minutes for the December 17,
25
     2018 CIM meeting; the January 3, 2019 TRS
0020
 1
     investment meeting minutes, and the
 2
     January 24, 2019 TRS board meeting
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     minutes.
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          CHAIRPERSON ADLER: Okay.
                                     We can
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     take them all at once.
        Is there a motion to approve the
 б
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     minutes for these three meetings; the
 8
     December 17 CIM, the January 3, 2019 TRS
 9
     investment meeting, and the January 24,
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     TRS board meeting?
        Is there a motion?
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          MR. KAZANSKY: So moved.
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          CHAIRPERSON ADLER: Is there a
14
     second?
15
          MR. BROWN: Second.
          CHAIRPERSON ADLER: Any discussion?
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17
          (No response.)
18
          All in favor of the motion to approve
19
     the minutes for these three minutes please
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     say "Aye."
21
          (A chorus of "Ayes.")
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          All opposed say "Nay."
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          Any abstentions?
          (No response.)
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25
          Motion carries.
0021
          MR. MCTIGUE: Reading of the
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 2
     calendar.
          MR. KAZANSKY: Please waive the
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 4
     reading of the calendar.
          MR. McTIGUE: Thank you, sir.
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          CHAIRPERSON ADLER: Do we have a
 б
 7
     motion approve the calendar items for
 8
     February 28, 2019?
 9
          MS. PENNY: So moved.
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          CHAIRPERSON ADLER: Is there a
11
     second?
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          MS. VICKERS: Second.
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          CHAIRPERSON ADLER: Discussion?
14
          (No response.)
15
          All in favor of the motion to approve
16
     the calendar items for February 28, 2019
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     please say "Aye."
18
          (A chorus of "Ayes.")
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        All opposed say "Nay."
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        Any abstentions?
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          (No response.)
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        Motion carries.
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        MR. MCTIGUE: Item Number 5, other
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    business.
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          CHAIRPERSON ADLER: Any other
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    business before the Board this month?
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          (No response.)
          Then we have questions and comments
 3
 4
     from the public.
 5
        Any questions or comments from the
 б
     public?
 7
        Not today. Thank you.
 8
        I believe that concludes our business
 9
     for today.
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        Is there a motion to adjourn?
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          MS. VICKERS: So moved.
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          CHAIRPERSON ADLER: Is there a
13
     second?
          MR. BROWN: Second.
14
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          CHAIRPERSON ADLER: Discussion?
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          (No response.)
17
          All in favor of the motion to adjourn
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     please say "Aye."
19
          (A chorus of "Ayes.")
20
          All opposed say "Nay."
21
          Any abstentions?
22
          (No response.)
23
          We're adjourned.
24
          (Time noted: 3:58 p.m.)
25
0023
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 3
                  CERTIFICATION
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                     I, Jeffrey Shapiro, a Shorthand
 б
     Reporter and Notary Public, within and for the
 7
     State of New York, do hereby certify that I
 8
     reported the proceedings in the within-entitled
 9
     matter, on Thursday, February 28, 2019, at the
10
     offices of the NEW YORK CITY TEACHERS RETIREMENT
11
     SYSTEM, 55 Water Street, New York, New York, and
12
     that this is an accurate transcription of these
13
    proceedings.
14
                     IN WITNESS WHEREOF, I have hereunto
15
     set my hand this 29th day of February, 2019.
16
17
18
19
20
21
                             JEFFREY SHAPIRO
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